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OHIO
UNIVERSITY
BULLETIN

For the Biennium

1964-1966

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THE CALENDARS

1964-1965

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THE UNIVERSITY CALENDAR FOR 1964-1965

Graduate students should consult the calendar in the Graduate College Bulletin for dates relating to application for candidacy, completion of examinations, and filing of thesis or dissertation, and abstract.

THE 1964 SUMMER SESSION

Tentative dates: first term June 15 to July 17; second term July 20 to August 22. For complete announcements see the Summer Session Bulletin.

SUMMER PRECOLLEGE COUNSELING

A one-day testing and counseling program for all new freshmen. Freshmen come to the campus for a day and a half during the period July 20 to August 14.

FIRST SEMESTER 1964-1965

1964

Sept. 12	Sat.	Opening of Freshman Week.
Sept. 15	Tues.	Registration for students who did not pre-register.
Sept. 16	Wed.	Classes begin.
Sept. 28	Mon.	Last day for registering for the semester.
Oct. 3	Sat.	Last day for adding course by change order. Last day for degree college student to withdraw from a course.
Oct. 5	Mon.	Last day for filing application with payment of fee for graduation on January 30.
Oct. 10	Sat.	Last day for partial refund of registration fees to students who withdraw.
Oct. 24	Sat.	Last day for removing incomplete grades incurred during last session in residence.
Oct. 29	Thur.	University College seven-weeks' grades due in Registrar's office by 4:00 p.m.
Nov. 3	Tues. to Nov. 7	Counseling period for University College students.
Nov. 7	Sat.	Last day for University College student to withdraw from a course.
Nov. 9	Mon.	Degree college mid-semester reports available to students from instructors during the week.
Nov. 25	Wed.	Thanksgiving recess begins at noon.
Nov. 30	Mon.	Classes resume with first scheduled class.

Dec.	2	Wed.	Advising of degree college students for second semester; classes dismissed.
Dec.	3	Thur.	University College twelve-weeks' grades due in Registrar's office by 4:00 p.m.
Dec.	8	Tues. to	
Dec.	12	Sat.	Counseling period for University College students; second semester schedules are prepared.
Dec.	16	Wed.	Christmas recess begins after last class.
1965			
Jan.	4	Mon.	Classes resume with first scheduled class.
Jan.	21	Thur.	Last day of classes.
Jan.	22	Fri.	Examinations begin.
Jan.	27	Wed.	Candidates' grades due in Registrar's office by 4:00 p.m.
Jan.	28	Thur.	Examinations end.
Jan.	30	Sat.	Semester closes; commencement; activities for new second semester students begin.

SECOND SEMESTER 1964-1965

Feb.	1	Mon.	Semester opens.
Feb.	2	Tues.	Counseling and advising for students who did not pre-register.
Feb.	3	Wed.	Registration for students who did not pre-register.
Feb.	4	Thur.	Classes begin.
Feb.	15	Mon.	Last day for registering for the semester.
Feb.	20	Sat.	Last day for adding course by change order. Last day for degree college student to withdraw from a course.
Feb.	22	Mon.	Last day for filing application with payment of fee for graduation on June 6.
Feb.	27	Sat.	Last day for partial refund of registration fees to students who withdraw.
Mar.	13	Sat.	Last day for removing incomplete grades incurred during last session in residence.
Mar.	18	Thur.	University College seven-weeks' grades due in Registrar's office by 4:00 p.m.
Mar.	23	Tues. to	
Mar.	27	Sat.	Counseling period for University College students.

Mar. 27	Sat.	Last day for University College student to withdraw from a course.
Mar. 27	Sat.	Spring recess begins after last class.
Apr. 5	Mon.	Classes resume with first scheduled class.
Apr. 5	Mon.	Degree college mid-semester reports available to students from instructors during the week.
Apr. 29	Thur.	University College thirteen-weeks' grades due in Registrar's office by 4:00 p.m.
May 4	Tues.	
May 8	Sat.	Counseling period for University College students.
May 25	Tues.	Last day of classes.
May 26	Wed.	Reading and review day; counseling and advising for September.
May 27	Thur.	Examinations begin.
May 31	Mon.	Memorial Day holiday.
June 2	Wed.	Candidates' grades due in Registrar's Office by 2:00 p.m.
June 3	Thur.	Examinations end.
June 6	Sun.	Commencement.

THE UNIVERSITY CALENDAR FOR 1965-1966

Graduate students should consult the calendar in the Graduate College Bulletin for dates relating to application for candidacy, completion of examinations, and filing of thesis or dissertation, and abstract.

THE 1965 SUMMER SESSION

Tentative dates: first term June 14 to July 16; second term July 19 to August 21. For complete announcements see the Summer Session Bulletin.

SUMMER PRECOLLEGE COUNSELING

A one-day testing and counseling program for all new freshmen. Freshmen come to the Campus for a day and a half during the period July 19 to August 13.

FIRST SEMESTER 1965-1966

1965

Sept. 11	Sat.	Opening of Freshman Week.
Sept. 14	Tues.	Registration for students who did not pre-register
Sept. 15	Wed.	Classes begin.
Sept. 27	Mon.	Last day for registering for the semester.
Oct. 2	Sat.	Last day for adding course by change order. Last day for degree college student to withdraw from a course.
Oct. 4	Mon.	Last day for filing application with payment of fee for graduation on January 29.
Oct. 9	Sat.	Last day for partial refund of registration fees to students who withdraw.
Oct. 23	Sat.	Last day for removing incomplete grades incurred during last session in residence.
Oct. 28	Thur.	University College seven-weeks' grades due in Registrar's office by 4:00 p.m.
Nov. 2	Tues. to Nov. 6	Counseling period for University College students.
Nov. 6	Sat.	Last day for University College student to withdraw from a course.
Nov. 8	Mon.	Degree college mid-semester reports available to students from instructors during the week.
Nov. 24	Wed.	Thanksgiving recess begins at noon.
Nov. 29.	Mon.	Classes resume with first scheduled class.

Dec.	1	Wed.	Advising of degree college students for second semester; classes dismissed.
Dec.	2	Thur.	University College twelve-weeks' grades due in Registrar's office by 4:00 p.m.
Dec.	7 to 11	Tues. Sat.	Counseling period for University College students; second semester schedules are prepared.
Dec.	16	Thur.	Christmas recess begins after last class.

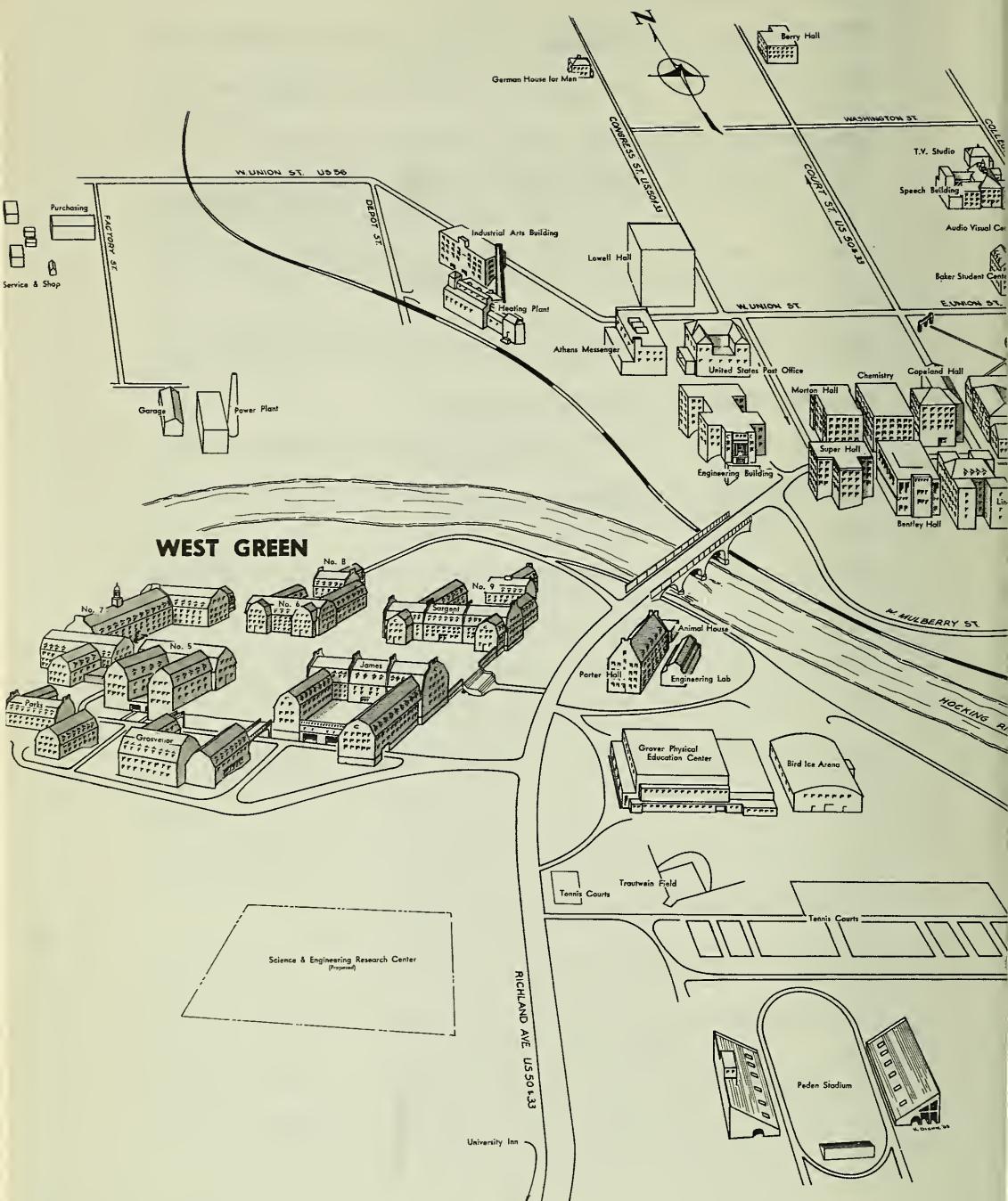
1966

Jan.	3	Mon.	Classes begin with first scheduled class.
Jan.	20	Thur.	Last day of classes.
Jan.	21	Fri.	Examinations begin.
Jan.	26	Wed.	Candidates' grades due in Registrar's office by 4:00 p.m.
Jan.	27	Thur.	Examinations end.
Jan.	29	Sat.	Semester closes; commencement; activities for new second semester students begin.

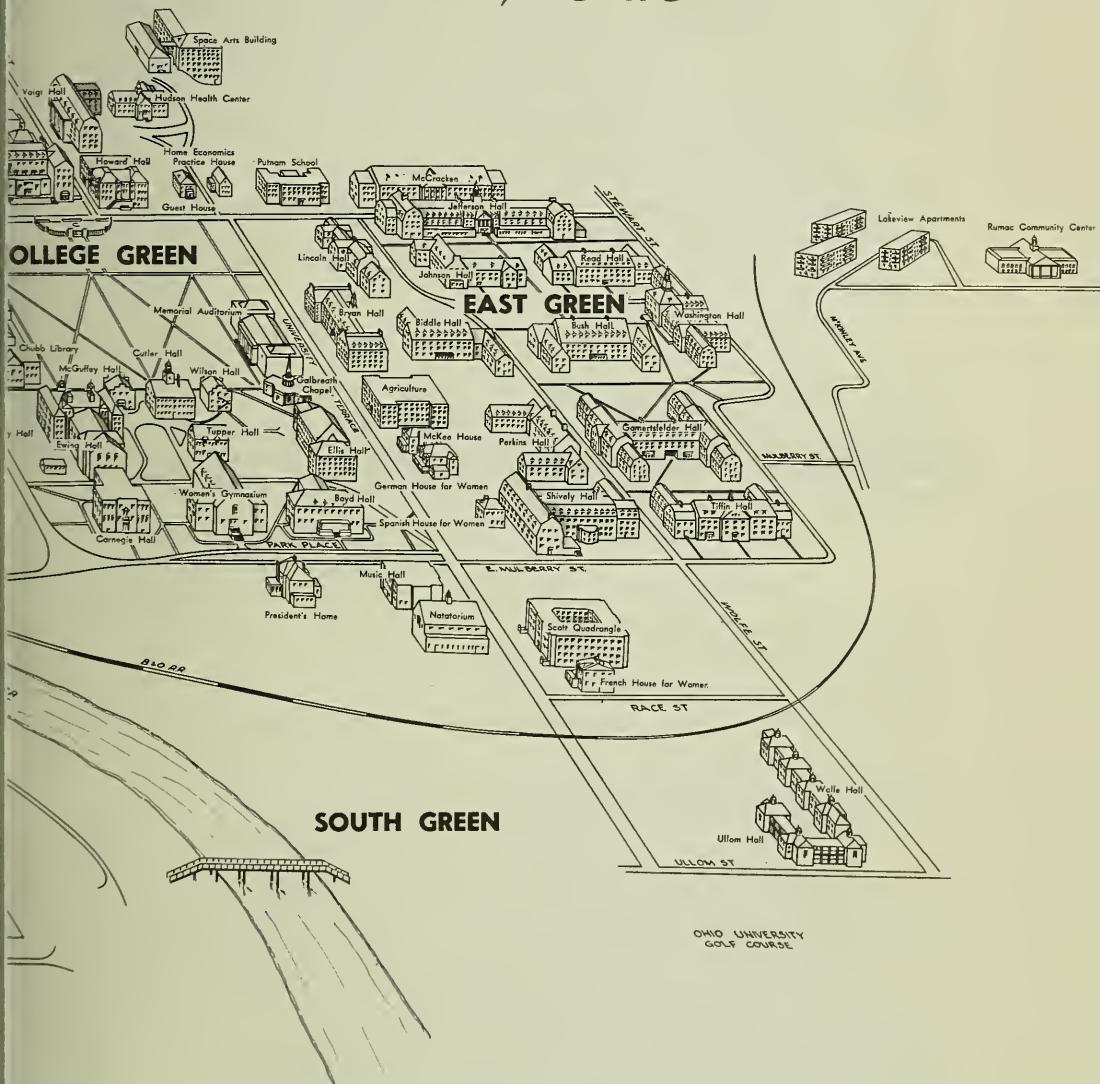
SECOND SEMESTER 1965-1966

Jan.	31	Mon.	Semester opens.
Feb.	1	Tues.	Counseling and advising for students who did not pre-register.
Feb.	2	Wed.	Registration for students who did not pre-register.
Feb.	3	Thur.	Classes begin.
Feb.	14	Mon.	Last day for registering for the semester.
Feb.	19	Sat.	Last day for adding course by change order. Last day for degree college student to withdraw from a course.
Feb.	21	Mon.	Last day for filing application with payment of fee for graduation on June 5.
Feb.	26	Sat.	Last day for partial refund of registration fees to students who withdraw.
Mar.	12	Sat.	Last day for removing incomplete grades incurred during last session in residence.
Mar.	17	Thur.	University College seven-weeks' grades due in Registrar's office by 4:00 p.m.

Mar. 22	Tues.	
to		
Mar. 26	Sat.	Counseling period for University College students.
Mar. 26	Sat.	Last day for University College student to withdraw from a course.
Mar. 26	Sat.	Spring recess begins after last class.
Apr. 4	Mon.	Classes resume with first scheduled class. Degree college mid-semeseter reports available to students from instructors during the week.
Apr. 28	Thur.	University College thirteen weeks' grades due in Registrar's office by 4:00 p.m.
May 3	Tues.	
to		
May 7	Sat.	Counseling period for University College students.
May 24	Tues.	Last day of classes.
May 25	Wed.	Reading and review day; counseling and advising for September.
May 26	Thur.	Examinations begin.
May 30	Mon.	Memorial Day holiday.
June 1	Wed.	Candidates' grades due in Registrar's office by 2:00 p.m.
June 2	Thur.	Examinations end.
June 5	Sun.	Commencement.



OHIO UNIVERSITY ATHENS, OHIO



PROGRESS AND NEW DEVELOPMENTS

THE CHALLENGE OF RAPID GROWTH

As a state-assisted university of high quality, Ohio University recognizes its responsibility to prepare for the student population explosion. One of the major problems confronting the university will be to determine the number of students we can admit to the main Athens campus or to our branches while simultaneously raising our academic standards.

In September 1963, 10,200 students enrolled on the Athens campus and 5000 additional students registered in the seven branches. The 1973 student population of the University may reach 26,000.

UNDERGRADUATE STUDENTS

Undergraduate scholars at Ohio have responded enthusiastically to the opportunity to study in the University Honors Program. A faculty committee has devoted considerable effort to shaping an "Honors College" which will offer special inducements and tailor-made, individual programs of study to gifted students.

To facilitate understanding and fluency in modern languages, five language houses have been created by student groups on campus:—a French House, a Spanish House, two German Houses and a Russian House. The students who live in these language houses must speak the designated language while in residence.

Our Mock United Nations was inaugurated by students on campus. Students representing one hundred nations participated in the two-day session.

Another important new event was the Symposium on Learning, wherein our undergraduates hosted ninety outstanding high school students, principals, and counselors for a weekend on the Ohio campus.

A mock-political convention is scheduled for the spring.

In line with our desire to give undergraduates substantial responsibility, more than fifty students were appointed this year to the various faculty and administrative policy-making committees of the University.

Progress and New Developments

We shall seek additional opportunities to encourage the close, constructive relationships between students and faculty which have always been characteristic of this University.

PHYSICAL EXPANSION

Continuing progress on our building program is apparent to anyone who has viewed the West Green dormitory development. The first four of eleven new dormitories were completed in 1963. Five new residence halls are scheduled for completion by 1965.

Our newest classroom building, unique among fine arts facilities in the United States, was dedicated in a two-day series of exhibits and scholarly lectures. The Space Arts Building houses the School of Painting and Allied Arts and the School of Architecture. It contains classrooms, photographic studios and darkrooms, an art gallery, a fine arts library, faculty offices, and a 255-seat auditorium.

Ellis Hall, one of Ohio University's oldest and largest classroom buildings, was completely renovated during the 1962-63 academic year. This newly modernized building is equipped with new language laboratories, television classrooms, and faculty offices.

Construction has been completed on our educational television station, and on January 3, 1963, WOUB-TV went on the air for the first time. A new video-tape recorder, contributed by the Ford Foundation, has enabled WOUB-TV to produce programs for delayed broadcast.

Land acquisitions, which increased the size of the main Athens campus by eighty-five per cent in 1963, will enable us to carry forward our plans for area and campus development.

The Ohio University Fund invested approximately \$950,000 during 1963 in land purchases.

Approximately 216 acres of State Hospital land used for farming were transferred to Ohio University in June 1963 by an act of the General Assembly of Ohio.

A new University Inn is scheduled to open in the Fall of 1964. Built to serve the needs of the University, the city, and the surrounding area, the Inn will contain approximately 180 bedroom suites, seminar and conference rooms, a ballroom, a swimming pool, and several dining rooms.

Another group of friends of the University have constructed a complex of modern apartment buildings east of the campus. Approximately \$6 million is being invested in ten apartment buildings to provide housing for faculty members, graduate students, and other people who are attracted to our rapidly growing university community.

Architects have been employed and plans are underway to construct a new \$4,770,000 library. The latest scientific advances are planned for this electronic learning center.

A Science and Engineering Research Center is scheduled for construction in 1965. The State of Ohio has appropriated \$2,688,000 for Phase I of this science complex and another \$1,300,000 is expected from the Federal government.

RESEARCH PROGRAMS

In March 1963, one hundred leading physicists from all over the world gathered at Ohio University for a two-day conference on "high energy particles." This international physics conference was planned and directed by our Department of Physics. Dr. E. O. Salant of the Brookhaven National Laboratories described the conference as "a historical step for scientific investigation in this region of the country."

Members of our electrical engineering department were commended by the National Aeronautical and Space Administration for their contributions to the Saturn missile project through research in "leak detection in space vehicles."

Another electrical engineering department project involves the study of high-power transmitting problems. Our Engineering Department in cooperation with Ohio State University and NASA is investigating the surface of the moon by electro-magnetic wave scattering.

Progress and New Developments

INTERNATIONAL PROGRAMS

Ohio University is involved in several United States government-sponsored educational programs for newly emerging nations. United States government grants made available to Ohio University through the Agency for International Development and the Peace Corps total approximately \$5,050,000.

Our faculty members have held fast to their belief that in the newly emerging nations of the world the first, most important step is to teach native teachers to teach.

Ohio was one of the first American universities to participate in teaching programs in Africa. Since 1958, thirty-eight of our faculty members have taught in western, eastern and northern Nigeria. Ten Nigerian faculty members have studied on our campus.

With other AID funds, Ohio University this year established a new program in South Vietnam. A demonstration school unique in the history of education in Vietnam will provide student teachers with instructional experience. Six Ohio faculty members will work closely with Vietnamese teachers in strengthening the existing programs at the Universities of Hue and Saigon. Thirteen students from Vietnam are currently studying at Ohio University.

Last fall twenty-seven educators from seventeen foreign countries came to Athens to study American educational methods and cultural life in a program sponsored by the United States Department of State, the Bureau of Educational and Cultural Affairs.

For the last two summers ninety-four Peace Corps Volunteers have been trained on our campus before assignment in the Federal Republic of Cameroon. Ohio has a unique program which enables the Peace Corps Volunteers to undertake graduate study while serving in Cameroon.

Because of the increasing size and complexity of our international commitments, a Center for International Programs has been established on campus.

DISTINGUISHED LECTURERS

To stimulate greater interest and involvement in the major issues facing our nation and the world today, the Edwin and Ruth Kennedy Lecture Series was established. A generous gift from the Kennedys, both alumni of Ohio University, enabled us to invite to the campus scholars and outstanding men and women of affairs. The 1963-1964 Kennedy Lectures are entitled "New Patterns and Predictions," and to set the tone for these lectures we borrowed the words of Robert Frost "Originality and initiative is what I ask for my country."

For the last two years, the lecturers and their topics were:

CHARLES FRANKEL

Professor of Philosophy at Columbia University—"The Case for Modern Man."

HAROLD TAYLOR

Former President of Sarah Lawrence College—"Peace and War and the Intellectuals."

MARGARET MEAD

Associate Curator of Ethnology at the American Museum of Natural History—"The Evolution of American Character."

ROBERT KENNETH CARR

President of Oberlin College—"Civil Liberties in the United States."

MUHAMMAD Z. KAHN

President of the Seventeenth Session of the General Assembly of the United Nations—"The United Nations and the Middle East."

MARK SCHORER

Professor of Literature, University of California—"The Modern Hero."

OSCAR HANDLIN

Winthrop Professor of History, Harvard University—"Minority Groups in American Society."

ARNOLD TOYNBEE

Royal Institute of International Affairs in London—"Civilization on Trial."

WILLIAM O. DOUGLAS

Associate Justice of the Supreme Court of the United States—"Current Trends in Court Decisions."

ISADOR I. RABI

Higgins Chair in Physics, Columbia University—"Science and Human Aspirations."

MARSHALL D. SHULMAN

Research Associate at the Russian Research Center, Harvard University—"Security in an Era of Conflict."

VERA MICHELES DEAN

Professor of International Development, New York University—"New Trends in United States Foreign Policy."

Progress and New Developments

VISITING COMMITTEES

Visiting Committees are composed of men and women who have achieved outstanding success in the various professions. For example, presidents and vice presidents of some of our country's most successful business concerns serve on the Business Administration Visiting Committee. Noted actresses, musicians and painters serve on the Fine Arts Visiting Committee.

The Visiting Committee acts as a bridge between the college classroom and the world of practical performance. Members of the committee tell the faculty and students about the realities that must be faced when students begin their careers. They offer suggestions as to the current trends and special needs of the various professions. They talk to the faculty about curriculum changes which would help the student to adjust to our changing competitive society.

The Visiting Committee for the College of Engineering and Technology is headed by Board member Paul Stocker, '26, President of Lorain Products, Inc.

Seventeen distinguished American businessmen are serving on the Visiting Committee of the College of Business Administration, whose chairman is Fred H. Johnson, '22, the President of Rankin, Johnson and Company.

The Visiting Committee for the College of Fine Arts consists of outstanding artists and patrons of the arts. John W. Galbreath, '20, serves as chairman of the committee.

The Visiting Committee for the College of Education is chaired by Edwin L. Kennedy '26, Partner, Lehman Brothers, New York, N. Y.

PARENTS ADVISORY COMMITTEE

Another Ohio University committee unique in American public education was established recently. The Parents Advisory Committee, composed of forty-eight parents of Ohio students, meets at regular intervals and has undertaken various projects and investigations designed to help us improve the quality of education and student life at the University.

CHAPTER XXVII.

An Act, establishing an University
in the town of Athens.

WHEREAS institutions for the liberal education of youth, are essential to the progress of arts and sciences, important to morality, virtue and religion, friendly to the peace, order and prosperity of society, and honorable to the government that encourages and patronises them: Therefore,

Sec. 1. BE it enacted by the general assembly of the state of Ohio, That there shall be an university instituted and established in the town of Athens, in the ninth township of the fourteenth range of townships, within the limits of the tract of land purchased by the Ohio Company of Associates, by the name and style of the "Ohio University," for the instruction of youth in all the various branches of liberal arts and sciences, for the promotion of good education, virtue, religion and morality, and for conferring all the degrees and literary honors granted in similar institutions.

Sec. 2. And be it further enacted, That this shall be and forever remain in the said university, a body politic and corporate, by <sup>Body politic
& corporate
established.</sup>

A. A



At Ohio, we recognize that students are looking for a meaningful university experience.

INFORMATION FOR THE PROSPECTIVE STUDENT

Admissions

Fees and Expense Estimate

Housing and Food Service

Financial Aids

Scholarships

Loan Funds

Part-time Employment

Prizes and Awards

Other University Services

Student Health Service

Major Medical Plan

Counseling

Clinics

Veterans

Students from other Countries

Internship Program

Bureau of Appointments

Office of University Information

Cultural Opportunities

University Organization and Facilities

Historical Background

Curricula and Degrees

Buildings and Grounds

University Library

Recreational Facilities

ADMISSIONS

GENERAL ADMISSION INFORMATION. All correspondence pertaining to the admission of a student to the University should be addressed to the Director of Admission, Ohio University, Athens, Ohio.

Students are accepted for admission to the University for the fall semester, the second semester which begins in February, and either of the two five-week terms of the summer session.

A student entering Ohio University for the first time must file simultaneously an admission application, medical history, physical examination report, and machine tabulating information. The application must be accompanied by a fifteen dollar (\$15) non-refundable application fee. In addition, he must present a transcript of all previous high school or college work attempted, plus the required test results for out-of-state residents. Please note that the medical history and physical examination reports must be submitted with the immunization record. Both the smallpox vaccination and tetanus immunization are required for admission.

A student who is entering from high school may apply for admission at any time after the completion of his junior year. Any decision of admission to the University based on a six or seven semester transcript is provisional. The student who has received a provisional admission is assured of final admission to the University if his work continues to be satisfactory. A supplementary transcript form will be sent with the provisional admission letter to be used in submitting the final report, and final letter of admission will be sent upon receipt of the final transcript. All materials should be sent to the Office of Admission, Ohio University, Athens, Ohio.

It is important to get all entrance credentials to the Director of Admission early enough so that the applicant can be informed concerning his admission and the opening of the session he wishes to enter. If accepted, the applicant will be forwarded information which he will need for registration at the University. For the fall semester, applications are usually not accepted after July 15, and for the second semester after January 1.

HOUSING. The admission of a freshman student is contingent upon the availability of housing. A housing application and agreement form is not mailed to the student *until after the Director of Housing has been informed of at least the applicant's provisional admission status.* All freshmen under 21 years of age are required to live in University residence halls.

Transfer students (men and women) may request housing applications through the Director of Housing only *after at least a provisional admission has been granted.*

SUBJECTS IN HIGH SCHOOL. Because Ohio University accepts graduates of first-grade high schools in Ohio, no particular pattern of high school subjects is required for admission. However, since prospective students frequently ask what subjects they should take in high school, a suggestion is offered as to a reasonable minimum distribution.

Prospective students are urged to complete elementary algebra and plane geometry in high school. Even though not required for admission, they must be completed to qualify for graduation from Ohio University. If completed at Ohio University, credit is not allowed toward a degree and the courses are offered only in summer sessions.

The following distribution of subject matter meets the specific University College requirements (see University College section of the catalog) and prepares the student for the pursuit of any curriculum in the University:

English	-----	3 or 4 units
Foreign language	-----	2 units
Social sciences	-----	2 units
	(One of which should be United States history and civics.)	
Laboratory sciences	-----	2 units
	(Biology, botany, zoology, chemistry, or physics preferred. General science and senior science do not meet University College requirements. Prospective engineering students should take chemistry and physics.)	
Algebra	-----	1 unit
Plane geometry	-----	1 unit
	(Prospective engineering students should also take advanced algebra, solid geometry, and trigonometry.)	
Electives	-----	4 or 5 units
Total	-----	16 units

THE TESTING PROGRAM. Each new student is required to take a college ability test. A student transferring to Ohio University from another college is not required to take the test if a record of the freshman test is on the transcript from the college.

A. C. T. PROGRAM. Ohio University recommends that the student who plans to enter college as a freshman complete the American College Testing Program. All students living in Ohio will be notified through their high schools about the program and the tests will be administered at special testing centers on the same date throughout the state.

These tests will develop information for the individual student and Ohio University will also use the test results for purposes of classification and placement. Any student who will graduate in the lowest third of his high school class will be required to take this or a similar test to determine his admission status.

RESIDENTS AND NONRESIDENTS OF OHIO. The scholastic requirements for admission and the general registration fee for non-residents of Ohio are higher than for residents of the state.

1. No student shall be considered eligible to register in the University as a resident of Ohio unless he has had bona fide domicile in the state twelve consecutive months before he registers at the

University. There is a strong presumption that one who comes into the state to attend college has a temporary residence, not a domicile.

2. No student whose domicile was outside Ohio in the year preceding his original enrollment in the University shall be considered a resident unless it can be clearly established by him that his former domicile has been abandoned and a new domicile established in Ohio and maintained for at least twelve consecutive months. No application for residence of one whose legal residence is not determined by his parents or legal guardian can be considered until the applicant is 22 years of age.
3. No student whose domicile was outside Ohio at any time after his original enrollment in the University shall be considered a resident unless he has established his domicile as stated in paragraph 2.
4. *Minors:* The domicile of a student who is a minor shall be considered the same as that of his parents or legal guardian, if any, regardless of emancipation. If an Ohio resident is appointed guardian of a nonresident minor, the latter shall be considered a nonresident until twelve months after the appointment.
5. *Wives:* A wife shall be classed as a resident student for registration purposes if her husband has had a bona fide residence in Ohio for a period of at least twelve months preceding her registration and is a resident of the state at the time of her registration.
6. *Losing Ohio Classification:* A student, who at time of entrance is classified as an Ohio resident, loses his Ohio classification if his legal residence is changed to another state, but not until one year has elapsed.

APPLICANTS FROM OHIO (High School Graduates). All residents of Ohio who are graduates of approved high schools and who have not attended another college are eligible for admission to the University. This, of course, is contingent upon the availability of housing. A student who has been enrolled for full time study in another college or has completed 12 semester hours must apply as a transfer student.

SPECIAL WARNING STATUS will be assigned to an entering student who ranks in the lowest third of his high school graduating class and scores in the lowest third of the American College Test or Ohio State Psychological Examination. Since his capability for success in meeting the initial demands of university level work is very low, a Special Warning student enrolls in Psychology 9, "Improvement of Reading and Study Methods," and in other courses, such as English 1 and Social Science 9, "Citizenship in the Modern World." He is also required to complete vocational counseling during his first semester.

Because this program will not be available to him in the Fall Semester, a Special Warning student will be required to enter the University at the beginning of a Summer or Spring Term. *No provision will be made for the initial enrollment of a beginning Special Warning student in September.*

Each applicant who ranks in the lowest third of his high school class must be evaluated for Special Warning status. An evaluation for a student ranking in the lowest third of his high school class will be possible for one who (a) takes the American College Test or (b) comes to the campus for testing during his senior year in high school. If in the opinion of the Admission Committee, his test results indicate ability to enter a regular freshman program, he can be cleared for admission as a regular student even before his final high school rank becomes available. Students will be notified through their high schools about the above named testing programs.

APPLICANTS FROM OUT OF STATE (High School Graduates). Applicants who are not residents of the state of Ohio are welcomed to apply for admission to Ohio University. Their admission will be based on promise of outstanding academic success. In addition to the requirements for admission of a state resident, the out-of-state resident is required to submit the test results of the Scholastic Aptitude Test of the College Entrance Examination Board. Other tests may not be used as a substitute. The student will also be evaluated on the basis of the type of high school attended and the pattern of the subjects studied, especially the subjects which prepare him for college work. Though an interview is not required, it is strongly recommended.

TRANSFER APPLICANTS. A student who has been enrolled for full time study in another college or has completed 12 semester hours must apply as a transfer student. He must have a point-hour ratio of 2.25 (4.0 basis), if a resident of Ohio, or 2.5 (C+) if a non-resident of Ohio, on all hours attempted in all his previous college work. He should also be eligible for good standing at Ohio University. A transcript must be submitted of his high school credits and from each college in which he has been registered, whether or not credit has been granted. Though a final decision of admission will not be granted until all college work has been completed prior to entering the University, a provisional decision of admission can be made based on all work previous to the current term. A false statement on the application for admission with reference to previous college attendance will be considered just cause for denial.

APPLICANTS FROM FOREIGN COUNTRIES. An applicant from a foreign country makes application for admission on a special foreign student application blank. This application form is obtained by writing to the Director of Admission, Ohio University, Athens, Ohio.

No application will be considered until complete *official* credentials from all secondary schools, colleges, universities, normal schools, or technical schools attended have been received. These should indicate the degree or diploma received, if any, all subjects studied, and grades, marks, or standing achieved in examinations. If original documents are issued in native language, the original documents or certified copies thereof shall be accompanied by *official* translations in the English language. Three letters of recommendation should be submitted, in-

cluding one from an administrative officer of the last educational institution attended and one from a teacher. An autobiographical sketch of 300 to 500 words should also be submitted.

ENGLISH CERTIFICATION. It is necessary that a student from abroad possess a degree of fluency in speaking English and a sufficiency in understanding the language that will warrant the belief that he can succeed in classroom situations where English only is used. It is necessary, therefore, that an applicant for admission provide certification to this effect.

Those seeking admission should contact the nearest American Embassy or Consulate and ask to take the English language test provided by the United States Department of State. The test will be administered by a consular officer and the results forwarded directly to Ohio University.

HEALTH CERTIFICATION. A statement filed by a licensed physician certifying to the state of the applicant's health and giving satisfactory evidence of smallpox vaccination and tetanus immunization must be submitted in connection with the application for admission.

The medical form is provided by Ohio University and must indicate that the applicant is:

1. Free from contagious or communicable disease.
2. Able physically and mentally to perform satisfactorily as a full-time student.
3. Sufficiently stable, emotionally, to make adjustment to an American university environment.
4. Vaccinated against smallpox.
5. Immunized against tetanus.

GRADUATE STUDENTS. Requirements for admission to the Graduate College are outlined in the Graduate College section of the catalog.

SPECIAL STUDENTS (Non-degree). A mature person (whether or not a high school graduate, and ordinarily 21 years of age or over) not planning to work toward a degree or diploma, may be accepted as a *Special Non-Degree Student*. Such a person must file an application for admission to the University and clear through the Admissions Office. He is permitted to carry a full class load and may take any courses for which he is qualified.

SPECIAL STUDENTS. (Transient). A student who has attended another college and who wishes to acquire credit to be transferred to the former school may be accepted as a *Special Transient Student* upon presenting evidence of good standing at the school formerly attended and a statement certifying that the credit will be accepted upon transfer.

SPECIAL STUDENTS (Part-time).

1. A person may register as a *Special Part-Time Student* for a maximum of six semester hours of work a semester without clearing

through the Admissions Office. Such a student, however, must be able to qualify for admission and is not permitted to retain this special status after he has accumulated 32 semester hours of credit at Ohio University or its Branches; or is within 32 semester hours of having sufficient credit for a degree. He must then make application for admission as a *Regular Student* and provide all the information required as an accompaniment to such an application.

2. A student who has not yet graduated from high school may be accepted as a *Special Part-Time Student* for university-level work provided:

- a. He has made an outstanding high school record in general, and in some special area of study in particular.
- b. He has completed all work offered by the high school in the special area field.
- c. He has been recommended by his high school teacher in the special subject field and by the high school principal.
- d. His completion of requirements for the high school diploma is assured.

ADVANCED PLACEMENT PROGRAM. Ohio University subscribes to the principle that every student of superior ability should have the opportunity to be placed in a secondary school program suited to his abilities and his preparation for college study. It therefore supports the Advanced Placement Program which has been developed by the College Entrance Examination Board. This program encourages secondary schools to establish college-level courses in the following fields: American History, Biology, Chemistry, European History, French, German, Latin, Literature and English Composition, Mathematics, Physics, Russian, and Spanish.

The student who enrolls for one or more of these courses is eligible to take an examination in each area completed. The examination is prepared by the College Board and the papers are graded by readers of the Educational Testing Service, Princeton, New Jersey. The examination paper, with the grade and an interpretation of the grade, a set of the examination questions, a description of the course as prepared by the school in which the work was done, and the school's recommendation, are forwarded to Ohio University. Advanced placement and credit will then be determined under policies adopted by the various departments of the university.

A bulletin on "Advanced Placement and Credit" may be secured from the Director of Admission, Ohio University.

ADVANCED STANDING EXAMINATIONS. Application for an advanced standing examination is made with the dean of the student's college for any course listed in the current catalog in which the student feels he has attained the necessary proficiency, and for which he desires credit without taking the course in class, provided the course lends itself to an examination. An advanced standing examination may not be taken to alter a passing grade at Ohio University. The application must be approved by the dean and the chairman of the department. Only a

student who is enrolled for a minimum of six semester hours as a resident student of Ohio University is eligible to make application. A fee of \$5, payable in advance, is charged for each semester hour of credit involved.

Credit for the course is granted when a student receives at least a C grade and has completed at least 15 semester hours of credit at Ohio University with a point-hour ratio of 2.0. If a student who has not completed 15 semester hours is granted permission to take an examination for advanced standing, the credit is withheld until he has earned the required amount.

Any grade received on the examination for advanced standing becomes a part of the student's academic record and is used to compute the point-hour ratio.

FEES

Official enrollment is completed when fees due have been paid. Fees are payable at the Cashier's Office prior to the opening of classes and in accordance with instructions issued with registration materials for those paying in full; and as scheduled for those students participating in the *Fee Equalization Plan*. The Fee Equalization Plan has been established for those students wishing to pay basic fees in equal payments over a period of months. It is designed primarily for those students who meet University expenses out of current family income. Full information on the plan is automatically sent to each student who applies for housing. Checks and money orders should be drawn in favor of Ohio University in the exact amount of the fees. If paid by mail, by the parents, they should be sent to the student in whose name the account is carried. It is important that the student retain receipts for they must be presented at various times.

Payment of fees owed is a prerequisite to official enrollment, and all students should have sufficient funds to cover these expenses. Post-dated checks will not be accepted. Checks issued to the University and not paid on presentation to the bank, will automatically cancel any receipts given and result in the assessment of penalties.

Ohio University reserves the right to make, without prior notice, any fee adjustments that may become necessary before the appearance of the next catalog.

REGISTRATION FEES

	Resident of Ohio	Non- Resident
Matriculation fee (nonreturnable) -----	\$ 10.00	\$ 10.00
Required of every student on first enrollment in the University.		

The Semester:

Comprehensive fee for load of 12 to 18 hours, inclusive, all colleges and curricula-----	225.00	425.00
Includes the general registration fee, the student activity fee, student service fees such as health, library, and testing, and course and laboratory fees. Excludes fees for private instruction as in music and bowling, which are listed in the course descriptions.		
Extra fee for each semester hours in excess of 18 hours-----	20.00	38.00
Fee for each hour for load of 7 to 11 hours, inclusive -----	20.00	38.00
Fee for each hour for load of 1 to 6 hours, inclusive -----	18.00	35.00

The fee for 1 to 6 hours does not carry with it the privilege of a student activity card or the use of the Health Service.

Auditors pay fees in full as above.

The Summer Session:

Fees for each term are proportionate amounts of the semester fees. See Summer Session bulletin for details.

Correspondence Study:

Registration for each semester hour -----	12.00	13.00
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Extension and Evening School Class:

Registration fee, each semester hour -----	15.00	30.00
Fee is increased if class is organized with an enrollment below the required quota.		

MISCELLANEOUS FEES

Admission Application filing fee		
for undergraduate -----	15.00	
for graduate student -----	5.00	
Change of course or change of college-----	2.00	
Entrance Tests, when not taken at the designated time -----	2.00	
Duplicate official forms, fee receipts, grade report, etc. -----	1.00	
Examination for advanced standing, each semester hour -----	5.00	
Graduation-----		
Application for baccalaureate or graduate degree -----	15.00	
Application for Associate in Arts degree -----	7.50	
Re-application -----	5.00	
Penalty for late application -----	5.00	
Diploma mailing fee for those absent from commencement	2.00	
Late registration or late payment of fees---\$3.00 Minimum, \$10.00 Maximum -----	3.00-10.00	
Dissertation Microfilming -----	25.00	

Thesis and Dissertation Editing and Abstract Printing -----	5.00
Dissertation or Thesis Binding, Each copy -----	3.75
Transcript of record, after first transcript request -----	1.00
Group requests of five to ten copies, \$5.00; up to twenty copies, \$10.00	
Vocational Counseling Fee for students and prospective students	5.00
Motor Vehicle Registration Fee -----	4.00

REFUND OF FEES. Voluntary and official withdrawal from the University entitles the student to a refund of 80 per cent of the comprehensive fee if he withdraws within the first and second weeks of a semester, and 50 per cent if he withdraws within the third and fourth weeks. A week is interpreted to mean a calendar week and ends at noon on Saturday.

If a student withdraws from the University before he pays his registration fees or before he completes full payment of fees, he is considered indebted to the University for the amount determined according to the refund regulations.

Refunds are issued thirty days after date of withdrawal.

EXPENSE ESTIMATE

The following is an estimate of expenses for a resident of Ohio for one eighteen-week semester at Ohio University:

Comprehensive registration fee -----	\$225.00
Rent of room in dormitory (minimum) -----	135.00
Board in dormitory -----	234.00
Total for semester -----	\$594.00

The estimate does not include the cost of books and supplies which amounts to approximately \$50 a semester for the average student.

The real differences in the costs of attending the University are to be found in such personal maintenance expenditures as those for laundry, clothes, recreation, and other incidentals. These may vary greatly and are determined by the individual's tastes and interests.

The University does not make provision for handling student accounts, this service being available through local banks.

HOUSING AND FOOD SERVICE

LIVING ACCOMMODATIONS: Ohio University provides attractive residence halls for the health and well-being of its students. All of the men's and women's facilities are adjacent to the campus, easily and conveniently accessible to other University buildings and to the business section of the city of Athens. Each residence hall has its own dining hall, with the exception of Voigt Hall and the dormitories on the East and West Greens which are served by central dining halls. Manage-

ment of the dining halls is under competent dietitians, who serve as members of the staff of the Director of Residence Services. Each residence hall is under the supervision of a resident manager or resident head. In addition, a number of graduate assistants and upperclass student counselors are assigned to the halls to aid in the over-all counseling program.

APPLICATIONS: Applications for rooms in either the men's or women's residence halls should be made to the Director of Housing, Ohio University, Athens, Ohio. **HOUSING CONTRACTS COVER THE FULL ACADEMIC YEAR (SEPTEMBER TO JUNE).** An application is considered only if accompanied by the advance room deposit of \$140.00 (this includes the \$5.00 retaining fee which is not a part of the room rent and which is not refundable). **ALL FRESHMEN, EXCEPT THOSE 21 YEARS OF AGE AND OVER, MUST LIVE IN UNIVERSITY HOUSING DURING THEIR FIRST YEAR.** Exceptions are made for commuters and residents of Athens.

BOARD: The cost of board in University dining halls is \$234.00 a semester for 21 meals a week. Meals are served throughout the academic year except during the Thanksgiving, Christmas, and Spring recesses. Board rates are subject to revision, upward or downward, in accordance with prevailing economic conditions. Residents in all University housing accommodations are required to eat in University dining halls.

ROOMS: In the residence halls for men or women, two or more students are assigned to each room. Semester room rates for each student are as follows: Standard triple—\$135.00; Standard double—\$162.00; Triple or quad with private bath—\$162.00; Double with private bath or air conditioning—\$180.00. All room rates include telephone, mail, and linen services. Rooms are furnished with dresser, study desks, chairs, beds, and bed linen which is laundered by the University. Items such as blankets, bed spread, dresser scarf, towels, toilet articles, and such accessories as draperies and desk lamp, must be provided by the student.

The University reserves the right to use rooms in any of the residence halls during the recess periods.

RESIDENCE HALLS: There are twelve residence halls for men and thirteen for women. In addition the University operates four cottages for women. All University residence halls are modern, fire-proof structures, attractively and comfortably furnished. They are located adjacent to the campus; easily and conveniently accessible to other University buildings and to the business section of the city of Athens. Each dormitory has its own social program, its own government, and a highly efficient counseling system.

PAYMENTS: All applications for a room reservation in University housing facilities must be accompanied by the required advance deposit of \$140.00 (this includes the \$5.00 retaining fee which is not a part of

the room rent and which is not refundable). The advance deposit is applied to the student's room account. Charges for board and the comprehensive registration fee are due and payable as indicated in the SCHEDULE OF PAYMENTS which will be forwarded to all new students assigned to University accommodations.

CANCELLATIONS AND REFUNDS: A schedule for the refund of room payments, in the event the student decides to cancel his reservation prior to the opening of either the fall or spring semester, is set forth in the housing application. After August 1 for the academic year and January 1 for the spring semester, however, the housing contract cannot be cancelled except by those who do not register or who officially withdraw from the University and refunds to these persons will be made in accordance with the refund schedule.

ROOMS IN PRIVATE HOMES: Rooms in private homes are listed in the office of the Director of Housing. Rooms are not listed until they have been inspected and approved by a member of the staff of the Dean of Students or of the Dean of Women. Students renting rooms in private homes are expected to remain in the home for a minimum of one semester. All undergraduate students (*expect those who have reached their 23rd birthday, and veterans who have reached their 21st birthday*) are required to live in approved housing. This rule also applies to married undergraduates whose wives or husbands do not reside with them in Athens.

NON-DISCRIMINATION POLICY: Ohio University has a policy in the administration of its affairs against discrimination based on race, religion, or national origin. This policy is observed in the admission of students to the University and in the utilization of all the University's facilities.

FRATERNITIES AND SORORITIES

Nineteen social fraternities and twelve social sororities maintain houses near the campus in which residence and dining facilities are available to members.

HOUSING FOR MARRIED STUDENTS

NOTE: The apartment and trailer park facilities are provided only for married students and their families. Veterans are given preference in the assignment of the barrack and prefab facilities. University facilities for married students include the following:

PERMANENT APARTMENTS. 52 units (equipped with basic furniture, including refrigerator and stove) located on Wolfe Street, adjacent to the University Golf Course. Rental rates range from \$70 to \$110 per month, including all utilities.

Apartments are also available from private agencies.



At Ohio beauty exists on our campus and testifies to the concern for planning that has been given in generations past.



At Ohio, we intend to carefully preserve the special design flavor of our campus.

BARRACK APARTMENTS: 112 units located on East State Street, approximately two miles from the Green. These apartments consist of a living room, bedroom, kitchen, and bathroom. Each has an abundance of closet space and is equipped with a gas cooking range and a gas circulating heating unit. Tenants must arrange to supply the additional needed articles. Rental rate of \$42 a month includes all utilities.

PREFAB UNITS: 14 units located on East State Street, adjacent to the University Airport. Each is equipped with gas cooking range, oil heating unit, kitchen table and chairs, and dresser. The tenant must provide his own studio couch or bed, and refrigerator. Rental rate of \$30 a month includes gas and water.

TRAILER PARK: The University trailer park, accommodating 36 privately-owned trailers is located on East State Street, adjacent to the University Airport. Space rental is \$14 a month, which includes water and sewerage. Toilet, bathing, and laundry facilities are provided for all trailer occupants. The rental charge does not cover electricity.

TRANSPORTATION: Convenient bus service is maintained by the University, on an hourly schedule when classes are in session, at no cost to the occupants of the East State Street area.

Further information about quarters for married students may be obtained from the Director of Housing, Ohio University, Athens, Ohio.

RESIDENCE HALL PARKING GARAGES

Spaces are available in the East and West Green garages at a rental rate of \$36.00 per semester. Assignments to the garages are made on a first-come, first-served basis. Full refund of the advance garage payment will be made if request for cancellation is made by August 1 for the fall semester and by January 1 for the spring semester. After those dates a refund will be made on the basis of 80 percent if requested before the end of the second week of the term, and 50 percent if within the third or fourth weeks (less any charges for period of occupancy). Application for garage space should be made to the Director of Housing, Ohio University, Athens, Ohio.

FINANCIAL AIDS

Ohio University assists students in furthering their education by providing three types of financial aid: scholarships, loans, and employment.

Persons desiring information concerning these types of aid should direct their communications to the Director of Student Financial Aids, Ohio University, Athens, Ohio.

All scholarships are awarded by the Ohio University Scholarships Committee. Unless otherwise indicated, these awards are based upon a consideration of these factors: academic promise, financial need, character and recommendations, and activities.

ENDOWED SCHOLARSHIPS

As their contribution to Ohio University's educational leadership, alumni and friends have to date contributed nearly \$500,000 to the Ohio University Endowed Scholarship Fund. The average value of these scholarships is \$350.

GIFTS

ALUMNI AND MOTHERS CLUB SCHOLARSHIPS. Scholarships in varying amounts are awarded annually by Ohio University Alumni and Mothers Clubs located throughout the state. These awards are usually granted to seniors graduating from high school in the immediate area of the organization, or to students already enrolled from these areas.

GALBREATH SCHOLARSHIPS. A grant from Mr. John W. Galbreath, '20, provides ten scholarships to outstanding freshmen on the basis of academic promise, citizenship, and personal qualities.

JAMES W. FAULKNER MEMORIAL FUND SCHOLARSHIP. This scholarship is awarded to a worthy and needy student of Journalism, who must be a resident of Ohio.

LICHTER GRANTS-IN-AID. Through a gift of the Lichter Foundation of Cincinnati, fifteen grants-in-aid are available each year to high school graduates having financial need who desire an opportunity to work their way through college.

Should a successful applicant find that the grant-in-aid, his own earnings, and other help from outside sources are not sufficient to cover school expenses, the student will have the opportunity to borrow from the Licher Loan Fund after the freshman year (see Loan Funds).

ATHENS COUNTY SCHOLARSHIPS. Mrs. Oral Daugherty each year donates to a fund for scholarships for students from the Athens County area.

ATHENS MERCHANTS SCHOLARSHIPS. The merchants of Athens each year donate varying amounts of money to a scholarship fund for students from the Southeastern Ohio district.

INDUSTRIAL SCHOLARSHIPS

ANCHOR HOCKING SCHOLARSHIPS. The Anchor Hocking Scholarships have been established by the Directors of the Anchor Hocking Glass Corporation, Lancaster, Ohio. Those eligible to apply for these scholarships are seniors or graduates of all high schools in counties in which the corporation's plants and offices are located.

ENGINEERING SCHOLARSHIPS. Each year several industrial concerns furnish scholarship funds for upperclass engineering students. The Western Electric Fund, New York, and Square D Foundation, Park Ridge, Illinois, have contributed regularly in past years. Alcoa Foundation, Pittsburgh, Pa., and The Cooper-Bessemer Corporation, Mount Vernon, Ohio, initiated grants beginning in 1963. These are subject to renewal each year. Grants range from \$500 to \$650 per year.

OHIO UNIVERSITY SCHOLARSHIPS

GRADUATE SCHOLARSHIPS. Available to graduate students who have maintained a high scholastic average. These awards cover the basic resident or non-resident registration fee. Applications should be filed with the Dean of the Graduate College, Ohio University, Athens, Ohio.

OHIO ACADEMY OF SCIENCE SCHOLARSHIPS. Available to winners in the Ohio Academy of Science Competition for high school seniors. Awards are based upon the general Ohio University requirements, and an approved rating in the National Science Talent Search Test or in a science test given by the Ohio Academy of Science.

REGULAR FRESHMAN SCHOLARSHIPS. Awarded to high school graduates on the basis of class rank, score on the American College Test, need, character, recommendations, and high school activities.

REGULAR UPPERCLASS SCHOLARSHIPS. Available to students who have completed at least two semesters in residence at Ohio University. A point-hour ratio of 3.0 (B) is required to attain such an award. Also used as a basis are need and college activities.

SPECIAL MUSIC SCHOLARSHIPS. Available in limited number to students with special ability and promise in music. These scholarships provide for remission of the general registration fee and for the remission of the applied music fees. Interested students should write directly to the Director, School of Music, Ohio University, Athens, Ohio.

HONOR SCHOLARSHIPS. Awarded to students who have had superior records in high school, but who show no evidence of financial need. These awards are based entirely upon past academic record and test scores. These awards are valued at a nominal figure and both freshmen and upperclass students are eligible.

EDUCATION SCHOLARSHIPS. Available in limited number to those who plan to enter or are in the College of Education. These scholarships are based upon the general scholarship requirements.

FOREIGN TUITION SCHOLARSHIPS. Each year a number of scholarships are awarded to students from foreign countries. These scholarships are based upon past academic performance and financial need. The scholarship covers the out-of-state fee as well as the general registration fee.

BRANCH SCHOLARSHIPS. Each of the six Ohio University Branches makes available to students entering the cadet teaching curriculum scholarships which cover all registration fees except library, laboratory, and miscellaneous fees. These scholarships are based upon the general scholarship requirements.

OTHER SCHOLARSHIPS AND FELLOWSHIPS

AMERICAN BANKER'S ASSOCIATION SCHOLARSHIP. The Association's Foundation for Education in Economics allocates annually a \$250 loan scholarship to the College of Business Administration for a deserving student of senior rank or above whose major course is in banking, economics, or related subjects.

HASKINS & SELLS FOUNDATION SCHOLARSHIP GRANT. Haskins & Sells, Certified Public Accountants, will award \$500 to an outstanding senior accounting student chosen by the accounting faculty as showing high promise for success in the public accounting profession.

FULBRIGHT OR MARSHALL SCHOLARSHIPS. Students who are interested in applying for Fulbright or Marshall Scholarships should consult Mr. Edward E. Birch, Adviser to Foreign Students, Ohio University, Athens, Ohio. Application blanks are available at the opening of the academic year each September. Only graduate students are eligible for these awards.

WOODROW WILSON NATIONAL GRADUATE FELLOWSHIPS. Students interested in being nominated for a Woodrow Wilson National Fellowship should consult with Dr. Richard Bald, Assistant Professor of Government, Bentley Hall, Ohio University, Athens, Ohio. Candidates may be either male or female of outstanding intellectual promise with sincere desire to become a college teacher. The awards primarily support candidates in the humanities and social science.

DANFORTH FOUNDATION GRADUATE FELLOWSHIPS. Male students interested in being nominated for a Danforth Fellowship should consult with Dr. Rush Elliot, Dean of the College of Arts and Sciences, Ohio University, Athens, Ohio.

Candidates must be able to demonstrate outstanding intellectual promise and personality, integrity, a genuine interest in religion, and substantial potential for effective college teaching.

RHODES SCHOLARSHIPS. Men who have completed their sophomore year at Ohio University are eligible to compete for the Cecil Rhodes Scholarship, tenable for three years at Oxford University, England, with a stipend of \$2,000 each year. These scholarships are awarded on the combined bases of character, scholarship, athletics, and leadership in collegiate activities. Persons desiring information or application blanks should direct their communications to Dr. Troy Organ, Ohio University, Athens, Ohio.

LOAN FUNDS

Ohio University has a number of loan funds to which students may apply for financial assistance.

Freshman and upperclass students are required to guarantee their loans by a promissory note. It is required that all students secure a co-signer for this note, preferably one of their parents, regardless of the student's age.

A number of campus organizations provide funds from which students may borrow limited amounts to meet financial emergencies. Inquiries and applications should be directed to the Director of Student Financial Aids, Ohio University, Athens, Ohio.

THE NATIONAL DEFENSE EDUCATION ACT LOAN FUND

Loans are made available through the National Defense Education Act Loan Fund to needy and able students who are willing to take the responsibility of such a loan.

Special consideration is given to students who express a desire to teach, or to students who are interested in the Sciences, Mathematics, Engineering, or Modern Foreign Languages.

Students may borrow up to \$1,000 per year. Interest is at 3 per cent per year and interest begins one year after the student has ceased to pursue a full-time course of study. Repayment begins one year after a student is out of school and ends eleven years after graduation.

Up to one-half of any loan plus interest is cancelled for service as a full-time teacher in a public elementary or secondary school at the rate of 10 per cent of the amount of the loan plus interest for each complete academic year of such service.

The loan must be evidenced by a note and a co-signer is required by the Ohio University Loan Fund Committee.

Further information and applications can be obtained by writing to the Director of Student Financial Aids, Ohio University, Athens, Ohio.

PART-TIME EMPLOYMENT

Every effort is made to secure employment for those students whose resources are not adequate for entire self support and who request aid. The placements are both on and off campus, and fall into three general categories: (1) board jobs in various university dining halls; (2) part-time work as student assistants in university departments and offices; (3) part-time employment in Athens business establishments and homes. The job referrals are based upon: (1) cumulative grade average, (2) need, (3) personal qualifications, (4) past experience, and (5) free time. For freshmen, high school records and recommendations are considered. All board job recipients must have a lung x-ray. Applications usually far exceed the number of jobs available. This source should not be counted on heavily as a means of financing an education.

PRIZES AND AWARDS

Through the generosity of friends of the University and campus organizations, numerous awards have been established for the recognition of high scholastic achievement. Complete descriptions and other information relating to them may be obtained from the Chairman of the Honors Program and Awards Committee. Announcement of winners is made through an annual publication.

OTHER UNIVERSITY SERVICES

STUDENT HEALTH SERVICE

The Student Health Service facilities are to be found in the Hudson Health Center, which is reached from East Union Street.

The Center includes a complete clinic with X-ray and minor surgery, a hospital of 52 beds with an isolation wing, a physiotherapy department and nurses' quarters.

The Health Service maintains a continuous record of each student's health, beginning with the family physician's report which is required on admission. A tuberculin skin test is given each new student on admission. All positive skin reactors are given a chest X-ray each year. All negative reactors are urged to be re-tested each year. This provides a means of early detection and protection for the college community. The Director of the Health Service in this, as in all other respects, has authority to take steps to prevent the spread of communicable diseases and to maintain standards of sanitation on the campus.

The Health Service staff comprises 6 full-time doctors, a part-time psychiatrist, and 14 registered nurses.

Students are entitled to the following:

1. *Clinic.* The outpatient service is open continuously from 8:00 a.m. to 4:00 p.m. except Saturdays when the hours are from 10 a.m. to 12:00 noon. The clinic is closed on Sundays and holidays. Patients will be seen from 4:00 to 5:00 p.m. at the clinic Mondays through Fridays who have no free time from 8:00 a.m. to 4:00 p.m. or who are actual emergencies. The hospital section is open continuously when classes are in session. Emergencies are seen in this section when the out-patient clinic is closed.

2. *Hudson Hospital.* This is the bed, or inpatient service. Each student is entitled to hospital care, subject to the judgment of the doctors.

3. *Emergency Service.* When the Clinic closes at 5:00 p.m., the main door is locked. Throughout the evening and night a nurse remains on duty, and a doctor is on call to care for emergencies. Admission can be gained by ambulance or car at the east entrance to the Health Center, or on foot at the west entrance where there is an illuminated night bell. This service is for emergencies only, and is not intended to be an extension of the daytime Clinic.

The university physicians do not make outside calls except in extreme emergency, and then only when called by a housemother, student dean, or other responsible person. The accessibility of the Health Center to all parts of the campus is one of its conspicuous features.

4. *Consultations.* A number of specialists in the field of surgery and medicine are available in Athens. Consultations requested by Health Center Physicians are paid for by the Health Center. Costs for eye glasses and for routine dental care will be at the expense of the student. Through the Mutual Aid Fund the Health Service will provide care for the injury to natural teeth and will pay up to a maximum of \$400 for doctors and hospital bills incident to emergency major surgery, injuries or illnesses occurring in Athens. Health Center doctors will refer such cases when such treatment is indicated.

5. *Diagnosis and Medicines.* The Health Center is equipped with full diagnostic services, such as clinical laboratory, x-ray, electrocardiogram, and metabolism tester. The physiotherapy department consists of whirlpools, diathermy, microthermy, bakers, and ultra violet. No charge is made for the use of any of these. Medications are also dispensed without any charge, except for drugs that are required to be taken over a long period by the patient or certain other expensive drugs not stocked by the Health Service. The doctor must be the judge as to what tests and what medications are required in any given case.

ABSENCE CERTIFICATES. Absence certificates will be issued only to students who are actually confined to the Health Center Hospital.

VACCINATION AND IMMUNIZATION. New students, whether freshmen or transfers, must present evidence of vaccination against smallpox within the past five years, before being admitted to Ohio University. Evidence of active immunization against tetanus is also required. Blank certificates giving detailed instructions are sent to each applicant for admission and must be returned to the Director of Admissions properly completed and signed.

HEALTH SERVICE FUND. The Della Hixson Fund provides approximately \$700 annually to provide treatment and hospitalization for students whose resources are inadequate to defray such expenses.

\$5,000 MAJOR MEDICAL PLAN. This plan, which is specifically designed to supplement the services of the Hudson Health Center, is available to every full-time student for a \$16.00 annual premium. It fulfills a major need when dependent family insurance protection is automatically lost because a student reaches age 18 or 19. It protects the student at home, at school, or while traveling anywhere, 24 hours a day, including vacation periods. All benefits are payable in addition to any payments received under other personal insurance policies the student may have. Benefits include surgical fees and 80 per cent of reasonable and necessary expenses.

PROLONGED ABSENCE FROM THE UNIVERSITY. Students, who resume their studies at Ohio University after an absence of two years will be required to submit the standard history and physical examination form as required for all new students entering the University.

COUNSELING

EDUCATIONAL COUNSELING. Each student is assigned to a faculty counselor who is primarily concerned with the educational guidance of the student throughout his freshman year. The counselor assists with the selection of courses and follows the progress of each student in his studies. Because the faculty counselor is selected from the student's major field of interest, many students choose to continue with the same adviser for four years. In the degree college the student is assigned to or selects his adviser on the basis of his field of specialization or concentration. Students are encouraged to consult freely with faculty advisers.

GENERAL COUNSELING. General counseling is a special concern of the Dean of Students and the members of his staff. Their offices are located in McGuffey Hall. Through student activities and organizations and the housing program these persons are in close touch with student life. Problems as a normal part of educational development are often personal in nature, as, for example, meeting financial needs, getting along with people, and making vocational choices. The offices of the Dean of Men and Dean of Women provide students with resources for helping themselves when confronted with perplexities beyond their own immediate resources. They work closely with all other counseling services in the University which are concerned with the welfare of students.

PERSONAL ADJUSTMENT COUNSELING. The Psychological Service Center provides professional counseling service as part of its training role for graduate students in clinical psychology. This service is available to any student who desires help with problems of personal or social adjustment or with other aspects of mental health.

Students may make appointments by reporting to Room 235, Porter Hall.

When psychological tests are administered in conjunction with personal counseling, a fee of \$5.00 is charged to cover the cost of tests. The facilities of the Center are also available on a limited, fee basis to non-University persons in the community.

TESTING AND VOCATIONAL COUNSELING. Tests for all new students are administered, scored, and reported to the administrative officers and faculty counselors. Students, counselors, and advisers may secure the results of such tests by inquiring at the University Testing and Vocational Counseling Service.

Complete vocational counseling is available to interested students. Educational and vocational plans are developed on the basis of a survey

of the abilities, interests, aptitudes and achievements, and also on the basis of the requirements for the occupations and their training programs. A fee of \$5 is charged to cover the costs of tests and test scoring. Application for this service may be made by contacting the staff of the Testing and Counseling Service, Room 235, Porter Hall.

SPEECH AND HEARING SERVICES

The School of Dramatic Art and Speech offers clinical services without charge to students with special problems in speech or hearing. The Audiological Center is located in the Jacobs House on College Street. It is equipped to test all types of hearing losses, to give auditory training, and to fit and evaluate hearing aids. The Speech Clinic, which is located on the second floor of the Speech Building, offers diagnostic and remedial services for all types of speech problems. Students wishing counseling or training should inquire at the office of the Speech and Hearing Center in Room 204, Speech Building.

VETERANS AND ORPHANS OF VETERANS

Veterans who enter Ohio University should report to the Office of the Coordinator of Veterans Affairs, Ewing Hall. Students who expect to be enrolled under Public Law 634 (orphans of veterans) should also report to the Veterans Office as soon as possible after their arrival on campus. It is the desire of that office to be of all possible service to veterans and students enrolled in the University.

STUDENTS FROM OTHER COUNTRIES

Ohio University welcomes students from other countries who show promise of profiting from educational opportunities in this country, and it has prepared special information for the benefit of prospective students from outside the continental limits of the United States. This information may be obtained by writing to the Director of Admissions, Ohio University, Athens, Ohio.

There is, furthermore, an Adviser to Foreign Students, whose interest in the problems of the foreign student is not limited to official matters. All such students are invited to consult him at any time during their stay at the University. His office is located in McGuffey Hall.

INTERNSHIP OFFICE

The Internship Program assists students in being placed in summer jobs which will provide them with experience along long-range vocational objectives. The office disseminates information on the occurring of summer positions in business, government, hospitals, social agencies, and public relations for students. In conjunction with the Foreign Student Adviser, the office will provide information on opportunities to work and study abroad. Information is also available on graduate fellowships, scholarships, and loans. The office is located on the third floor of McGuffey Hall.

BUREAU OF APPOINTMENTS

The Bureau of Appointments, located in Cutler Hall, affords students, former students, and graduates of the University assistance in securing positions in such fields as teaching, business, and industry.

A registration fee of \$2 entitles an applicant to this service while enrolled as a student in the University and for one year after graduation. After the one year period, an additional charge of \$2 a year is made for each year in which assistance is requested.

The Director of the Bureau of Appointments and the office personnel are available to counsel students relative to their vocational plans.

The Bureau maintains and promotes all possible connections with prospective employers for the benefit of persons seeking initial placement and for those looking toward advancement to better positions.

OFFICE OF UNIVERSITY INFORMATION

The Office of Information prepares stories, features, and pictures concerning all areas of the University and the activities and accomplishments of students and student groups, for publication in newspapers and magazines and for radio and television. Assistance is given in writing material for various university publications and bulletins. Visiting members of press and radio are invited to make the offices, located in Cutler Hall, their headquarters when visiting Ohio University, and every aid is given in securing data requested personally or by letter.

CULTURAL OPPORTUNITIES**FACULTY LECTURE SERIES**

This annual series provides the campus and community an opportunity to benefit from the scholarly work of outstanding faculty members.

GUEST ARTISTS AND SPEAKERS

THE EDWIN AND RUTH KENNEDY LECTURE SERIES, designed to stimulate greater interest and involvement in the major issues facing our nation and the world today, is supported by a generous gift of the Kennedys, alumni of Ohio University.

This annual Lecture Series presents some of the most distinguished scholars and public figures in American life. This program is elaborated upon in the forefront of the catalog.

THE HERMAN G. JAMES LECTURES on Municipal Government, endowed by Mrs. George E. Frazer, sister of the later former president of Ohio University, brings to the campus each year a leading authority in the field of municipal affairs.

FINE ARTS PROJECTS

The College of Fine Arts plans many events of a cultural nature each year. In addition to the numerous concerts and plays which are presented by the students and faculties of the School of Dramatic Art and Speech and the School of Music, the two schools have cooperated in campus-wide production of "Roberta," "Girl Crazy," "Song of Norway," "Brigadoon," "Fledermaus," "Finian's Rainbow," "Kiss Me, Kate," "Knickerbocker Holiday," "Oklahoma," and "Pajama Game."

The School of Painting and Allied Arts and the School of Architecture maintain an art gallery in the new Space Arts Building in which a program of exhibitions is conducted throughout the year. Other exhibitions are scheduled from time to time in the University Center.

Since 1960, The School of Painting and Allied Arts has sponsored, with the Wesley and Westminster Foundations, a national print and drawing exhibition, "Ultimate Concerns." This exhibition, held during the month of March, displays professional work submitted from every state in the union. Works purchased from this show are added to the permanent collection of Ohio University.

CONCERT SERIES

The University sponsors two concert series, the University Artist Series and the University Chamber Music Series. The former has brought many of the world's greatest musicians to the campus. Appearing in recent concerts have been Marian Anderson, Jerome Hines, Leon Fleisher, the Cleveland and Pittsburgh Symphonies, the Robert Shaw Chorale, and others of equal stature. Ballet and opera companies appear frequently. The Chamber Music Series annually presents such internationally famed groups as the Juilliard and Paganini String Quartets, and the Alberneri and Pasquier Trios. All concerts are presented without charge to the student body.

UNIVERSITY ORGANIZATION AND FACILITIES

HISTORICAL BACKGROUND OF THE UNIVERSITY

Ohio University has a rich heritage. Considered its co-founders are Dr. Manasseh Cutler of Ipswich, Massachusetts, and General Rufus Putnam of Rutland, Massachusetts. It was Cutler who in 1787 signed the Ohio Company's contract with Congress for the purchase of land in the Northwest Territory. The contract set aside two townships of land in the center of the purchase tract as the gift of the United States Government for the founding of a University. It was adding reality to Cutler's words which had been incorporated in the Ordinance of 1787 for the government of the Northwest Territory: "Religion, morality, and knowledge being necessary to good government and the happiness of mankind, schools, and the means of education shall for-

ever be encouraged." It was Putnam who in 1799, after delay caused by the Indian Wars, laid out the town of Athens and the College Green. On March 1, 1803, Ohio, the first of five states to be formed from the Northwest Territory, entered the Union, and on February 18, 1804 its Legislature provided for the establishment of "an University . . . in the town of Athens . . . by the name and style of the Ohio University." Thus Ohio University became the first institution of higher learning in the Northwest Territory and the vast region beyond. It has grown with the Nation and the State into a diversified and effective institution of higher education.

ORGANIZATION OF THE UNIVERSITY

CURRICULA AND DEGREES

THE UNIVERSITY COLLEGE

- Basic preparation for admission to each of the degree-granting colleges
- Two-year terminal programs leading to the Associate in Arts degree

THE COLLEGE OF ARTS AND SCIENCES

- Curricula leading to the degrees Bachelor of Arts and Bachelor of Science
- Preprofessional curricula

THE COLLEGE OF BUSINESS ADMINISTRATION

- Curricula leading to the degrees Bachelor of Science (major in Agriculture), Bachelor of Business Administration, and Bachelor of Science in Secretarial Studies
- The School of Journalism
 - Curricula leading to the degree Bachelor of Science in Journalism

THE COLLEGE OF EDUCATION

- Teacher-training curricula leading to the degree Bachelor of Science in Education

THE COLLEGE OF ENGINEERING AND TECHNOLOGY

- Engineering Curricula leading to the degrees Bachelor of Science in Chemical Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, and Bachelor of Science in Mechanical Engineering.
- Curriculum leading to the degree Bachelor of Science in Industrial Technology
- The School of Home Economics
 - Curricula leading to the degree Bachelor of Science in Home Economics
- The Department of Industrial Arts

THE COLLEGE OF FINE ARTS

Curricula in three schools leading to the degree Bachelor of Fine Arts

The School of Dramatic Art and Speech

The School of Music

The School of Painting and Allied Arts

Curriculum in the School of Architecture leading to the professional degree Bachelor of Architecture

THE GRADUATE COLLEGE

Programs leading to the degrees Master of Arts, Master of Business Administration, Master of Education, Master of Fine Arts, Master of Science, and Doctor of Philosophy

THE BRANCHES

Chillicothe

Ironton

Lancaster

Martins Ferry

Portsmouth

Zanesville

Strategic Air Command Educational Centers at Blytheville and Lockbourne Air Force Bases

THE DIVISION OF PHYSICAL EDUCATION AND ATHLETICS**THE RESERVE OFFICERS' TRAINING CORPS**

Air Science

MILITARY SCIENCE

THE UNIVERSITY EXTENSION DIVISION

Evening Classes

Extension Classes

Correspondence Courses

CLASSIFICATION AND LOCATION

Ohio University is a coeducational, state-assisted university. The city of Athens, home of the University, is located in scenic South-eastern Ohio and has a population of 21,500, including townspeople and full-time students.

Free from the distractions of a metropolitan center, Athens offers many advantages to the person who desires to pursue university work in an atmosphere of culture and relative quiet.

Athens is conveniently accessible by automobile on U. S. Routes 33 and 50 and State Route 56. The city is on the main Baltimore-St. Louis route of the Baltimore and Ohio Railroad. North-south bus service is provided by the Lake Shore System and Trailways; east-west by Greyhound.

THE SESSIONS

The sessions of the University consist, annually, of two eighteen-week semesters and a summer session of two five-week terms. Sequences

of courses are planned to permit students to begin degree programs in any of these sessions. The plan provides year-round study opportunities for students at both the undergraduate and graduate levels.

ACCREDITATION

Ohio University is accredited by the North Central Association of Colleges and Secondary Schools, and by the recognized professional accrediting associations identified with its major academic divisions. It holds membership in the leading state and national educational and professional associations in its major areas of interest. Specific references to accreditation are contained in the respective college sections of the catalog. A selected list of memberships and approvals appears on the inside back cover.

BUILDINGS AND GROUNDS

Ohio University's physical plant consists of 75 principal buildings, 111 auxiliary buildings, and approximately 700 acres of land. There is in addition the Ohio University Airport. A map of the campus with a key to the buildings appears in the front of the catalog.

ON THE GREEN

The "College Green" was laid out between 1799 and 1804 in compliance with the terms of a Resolution of the General Assembly of the Territory of Ohio passed in 1799. Its present boundaries were fixed in 1844.

The Green now comprises a small part of the land holdings of the University, and a majority of the university buildings are to be found off The Green, although near it.

On The Green are located 12 buildings and two memorial gateways.

MANASSEH CUTLER HALL, the oldest building in the Northwest Territory erected for the purposes of higher education, was known in its early days as "The College Edifice" and later as the Center Building. It was given its present name for one of the founders of the University. Its construction was begun in 1816 and completed in 1818. Cutler Hall and the nearby "Wings," of similar style, comprise an interesting unit of early American architecture.

WILSON HALL was erected in 1837 and for more than a century was known as East Wing.

McGUFFEY HALL, originally known as West Wing, was erected in 1839. This building was named for William Holmes McGuffey, author of the famous "Readers" and a onetime president of Ohio University. It is identical with Wilson Hall in the unit of three old buildings, which today house administrative offices.

Other buildings on The Green are — The **EDWIN WATTS CHUBB LIBRARY**, the **ALUMNI MEMORIAL AUDITORIUM**, the **GALBREATH MEMORIAL CHAPEL**, **EWING HALL** (Philosophy, Sociology) **TUPPER HALL**, **ELLIS**

HALL (English, Languages), CARNEGIE HALL (Mathematics, R.O.T.C.), the WOMEN'S GYMNASIUM, and BOYD HALL (residence for women).

Most of the other university buildings are located on streets adjacent to or leading from The Green.

OFF THE GREEN

ON EAST UNION STREET, north boundary of The Green, are the JOHN CALHOUN BAKER UNIVERSITY CENTER, the UNIVERSITY GUEST HOUSE, the HOME ECONOMICS MANAGEMENT HOUSE, the UNIVERSITY ELEMENTARY SCHOOL, and McCracken HALL (Education).

THE HUDSON HEALTH CENTER is located off East Union Street.

ON UNIVERSITY TERRACE, immediately east of The Green, is BRYAN HALL (residence for women) and the AGRICULTURE AND HOUSEHOLD ARTS BUILDING.

Also on University Terrace, southeast of The Green, is SCOTT QUADRANGLE and the NATATORIUM. Scott Quadrangle, a residence for women, is composed of eight units — ATKINSON, BENTLEY, COPELAND, DANA, DUNKLE, EVANS, GORDY, and HOOVER halls.

ON PARK PLACE, south boundary of The Green, is MUSIC HALL and the PRESIDENT'S HOME.

ON COLLEGE STREET, a street running north and south from The Green, are the SPEECH BUILDING, TELEVISION STUDIO, VOIGT HALL, and HOWARD HALL. The latter two halls are residences for women.

ON SOUTH COURT STREET, west boundary of The Green are LINDLEY HALL (residence for women) and COPELAND HALL (Business, Journalism).

ON PRESIDENT STREET, west of The Green, are BENTLEY HALL (History, Government), SUPER HALL (Physics), the CHEMISTRY BUILDING, MORTON HALL (Zoology), and the ENGINEERING BUILDING.

ON CHURCH STREET is the SPACE ARTS BUILDING (School of Painting and Allied Arts and School of Architecture).

ON RICHLAND AVENUE, across the South Bridge are PORTER HALL (Life Sciences), ENGINEERING LABORATORY, ANIMAL BUILDING, BRANDON T. GROVER PHYSICAL EDUCATION CENTER, and BIRD ICE ARENA.

ON ULLOM AND WOLFE STREETS, south of East Green, are the first two units of the permanent MARRIED STUDENT APARTMENTS.

THE INDUSTRIAL ARTS BUILDING, HEATING PLANT, and LAUNDRY, are located on West Union Street.

EAST GREEN

ON THE EAST GREEN, an area immediately east of the main campus, are located eleven residence halls: JOHNSON, BUSII, BIDDLE, PERKINS, READ, WASHINGTON, TIFFIN, SHIVELY, LINCOLN, GAMERTSFELDER, and JEFFERSON.

WEST GREEN

A residence area similar to the East Green is nearing completion, with GROSVENOR, JAMES, PARKS, SARGENT, and DORMITORY #5 already in use.

UNIVERSITY LIBRARY

Books are an important part of an educational experience at Ohio University. The University Library is organized to provide books for study and research and to promote an appreciation of reading as one of the cultural assets of later life.

Most of the collections are housed in the Edwin Watts Chubb Library, erected in 1930 and named in honor of a former dean of the College of Arts and Sciences. The main collection of more than 340,000 volumes, including periodical sets, documents, and pamphlets, is shelved chiefly in the stacks to which all students have access. A reference collection of several thousand volumes is in the Reading Room; and current issues of about 1800 periodicals are received. Newspapers from the principal cities of Ohio and elsewhere are available.

Books reserved in courses at faculty request are shelved together. A browsing room contains books of general interest for pleasure reading. A collection of sound recordings and extensive holdings of microfilm and microcards are available. In the Children's and Young People's Room a collection of books for younger readers provides service to the children of Athens and is used as a laboratory by students in education. Other special collections in the Chubb Library include the valuable J. W. Morgan Collection of historical books in chemistry and other physical sciences, the University's rare book collections, and the University Archives.

Fully-staffed departmental libraries are maintained for the College of Education and the College of Fine Arts, and specialized collections on a less formal basis are administered in connection with the College of Business Administration, the School of Music, and the Departments of Botany, Chemistry, Physics, and Zoology. A special map library houses the great map series of the Army Map Service and the United States Geological Survey. The Jefferson Hall Library serves as an undergraduate library for the East Green.

During regular sessions the Library is open daily and throughout the evenings; during vacations shorter hours are observed.

THE HELEN MAUCK GALBREATH MEMORIAL CHAPEL

The Chapel was given to the University by Mr. John W. Galbreath, trustee and prominent alumnus, in memory of his wife, a graduate of the class of 1919. Dedicated in 1958, it is the function of the Chapel to aid in serving the religious needs of all faiths and denominations.

UNIVERSITY MUSEUM

The University Museum of Natural History, oldest of its kind west of the Allegheny Mountains, houses more than 80,000 specimens, in-

cluding specimens from Dr. S. P. Hildreth's famous collection of rocks and minerals dated 1815 and 1825.

Many science collections have gravitated to the museum through the efforts of local groups, societies, and individuals. These have yielded series of fossils, rocks, minerals, plants, and animals. In addition, there are on display items of archaeological, ethnological, and historical interest.

The museum is housed in the basement of Alumni Memorial Auditorium and is open to the general public Monday through Friday, 1:00 to 4:00 p.m.; Saturday, 9:00 a.m. to 12:00 noon; Sunday and at other times upon request to the curator, Dr. A. H. Bickle.

UNIVERSITY GOLF COURSE

The University Golf Course is located on the east side of the Hocking River across from Ohio Stadium and the other athletic fields. The two areas are connected by a footbridge.

UNIVERSITY AIRPORT

The Ohio University Airport of 150 acres is located approximately two miles from the campus on U.S. Route 50, east of Athens. The field has a paved runway 3200 feet in length, four hangars, and an administration building. The hangars provide space for plane storage, a repair station, a Link Trainer room, and a pilots' ready room. The field is equipped with runway lights for night flying.

FISCHER HOUSE

This residence, a landmark in Zaleski, is the gift of Miss Margaret Jane Fischer. It serves as a faculty study retreat and conference headquarters.

ATHLETIC FIELDS

The Athletic Fields are located across the Hocking River on the east side of Richland Avenue. They comprise Trautwein Field; Bird Arena; the B. T. Grover Physical Education Center; Peden Stadium, seating 16,000 persons, with a football gridiron and running track; intramural fields; tennis courts; and practice fields.

RECREATIONAL OPPORTUNITIES

THE JOHN CALHOUN BAKER UNIVERSITY CENTER

The Center provides facilities for the cultural, social, and recreational benefit of students. It contains three beautiful lounges, a large ballroom, dining rooms, cafeteria, snack bar, library and record listening room, television, conference rooms, student government and publica-

tions offices, and recreational areas for bowling, billiards, table tennis, and cards.

Club rooms for both men and women members of the university faculty are also located in this building.

The Center is not only a place for fun and relaxation, but is also an educational workshop, where students can develop cultural interests, skills in human relations, and organizational efficiency during their out-of-class hours.

A faculty-student policy board controls the operation of the building, and an all student board directs the large and varied program provided by the Center for the benefit of the entire student body.

THE NATATORIUM

The Natatorium is a modern structure conveniently located adjacent to the main campus. The pool, 42 feet wide by 75 feet long, has six standard seven foot racing lanes and a rated capacity of 116 persons. It is equipped with submerged lighting, Olympic-style starting blocks, diving boards, and safety equipment.

The building contains locker rooms, dressing rooms, and spectator accommodations for about 1,000 persons.

The facilities of the Natatorium are available to students for both credit and recreational swimming.

GENERAL RECREATION

The Division of Physical Education and Athletics directs the intramural athletic program at Ohio University. This program includes competitive and physical recreational activities for men and women students.

Facilities at Ohio University for intramural athletics include a gymnasium for men, a gymnasium for women, a natatorium, an ice skating rink, a game room and bowling alleys in the University Center, and extensive outdoor recreational areas. The men's athletic fields are equipped to handle ten softball games or seven touch-pass football games at one time. Women's athletic fields are available for intramural softball, hockey, archery, and soccer. Twenty-five tennis courts are used interchangeably for men's and women's programs. Outdoor areas for basketball, horseshoe pitching, bowling on the green, and volleyball are also available to men and women.

Intramural activities for men include touch football, basketball, track, golf, volleyball, handball, softball, tennis, badminton, bowling, horseshoes, wrestling, field days, soccer, swimming, and table tennis.

Bird Arena houses an ice skating rink, 85 feet by 190 feet. From November to April there are classes in beginning and advanced skating skills, in addition to recreational skating, and ice hockey.

The B. T. Grover Center is a \$2,000,000 Physical Education and Athletic Plant that accommodates a diversified sports and activity program for men and women.

The Division of Physical Education and Athletics directs the varsity sports program which consists of football, baseball, basketball,

track, soccer, wrestling, cross country, tennis, swimming, golf, and riflery. Ice hockey is promoted on a club basis.

Intramural sponsored activities by the Women's Recreation Association are open to all women and include field hockey, archery, tennis, bowling, basketball, softball, badminton, golf, swimming, and ice skating.

The Women's Recreation Association owns a cabin in the wooded hills outside of Athens that is available to groups for outing activities.

The Dance Club, sponsored by the women's department of the Division of Physical Education and Athletics, presents an annual dance concert.

The Dolphin Club, a women's aquatic group, presents an annual water show.

Dramatic productions by the University Theatre and the University Playshop are scheduled at frequent intervals for the enjoyment of students and members of the local community.

Numerous dances, both formal and informal, are held during the year. Feature movie productions are shown three nights each week in Memorial Auditorium.

Several of the local churches have social-religious programs that are designed for and enjoyed by large numbers of students.

Not many miles distant from Athens, and suitable as weekend diversions, are the attractions of four of the state's most scenic areas—Dow Lake, just east of Athens; Lake Hope, in the heart of the Zaleski State Forest; the caves and gorges of the Hocking Park area; and Burr Oak Lake near Glouster, Ohio.

The 160 acre Dow Lake, within a 2,000 acre state park, will be used extensively by the university for outdoor education, group camping, aquatics, boating, and for research projects in conservation and natural resources.

STUDENT ACTIVITIES AND ORGANIZATIONS

Social Policy

Student Government

Publications

Dramatics

Music

Religious

Scholastic and Social

STUDENT ACTIVITIES AND ORGANIZATIONS

SOCIAL POLICY

The students, faculty, and administrative officers of Ohio University and the community of Athens are united in their interest in maintaining a moral tone and a social pattern that is in keeping with good taste and acceptable social practice anywhere among educated people.

Ohio University has a long and interesting history. Succeeding generations of students who come to the University with varying backgrounds and social interests should enrich the traditions, social standards, prestige, and reputation of the University. The University expects students to exercise discerning judgment and to be personally responsible for absorbing and complying with the social patterns of the university community.

The student body, faculty, and administrative officers, therefore, will employ any reasonable means to control moral indiscretions and social behavior which is in bad taste.

CAMPUS AFFAIRS COMMITTEE

The Campus Affairs Committee is the official executive committee of extracurricular life, recognized and authorized by the President of Ohio University. The Dean of Men and the Dean of Women are the administration's permanent representatives on the committee and serve as co-chairmen, alternating annually as presiding officer. In addition, four faculty members—two men and two women—are appointed by the Dean of Students for three-year terms. The five student members are appointed each year. All of the Campus Affairs Committee student members are on the committee by virtue of their positions: the presidents of the Student Cabinet (elected by the campus at large), Panhellenic council, Interfraternity council, Men's Interdormitory council, and Women's Interdormitory council.

There are four subcommittees of Campus Affairs Committee (social, publications, financial, and student government) which receive study or research assignments from Campus Affairs. Each subcommittee consists of two faculty members and two students, the chairman of each subcommittee being a faculty member on Campus Affairs Committee. Appointments to the subcommittees are made annually by the Dean of Students. Students may apply for membership and are screened by Student Cabinet. In order to provide continuity in student viewpoint, one student is chosen to serve two consecutive years.

The Campus Affairs Committee is held responsible by the President of the University for extracurricular policies, for allocation of a portion of the student fees, for final decisions relating to new organizations on campus, for those student activities which affect campus and public relationships, for the jurisdiction over rules and regulations in which both men and women are involved, and for any other matters which the President refers to it.

The Committee meets regularly in the John Calhoun Baker University Center on each Monday at 3:15 p.m., except during examination week. The Dean of Men and the Dean of Women serve as an executive committee for the Campus Affairs Committee when it is not feasible to assemble the entire committee.

STUDENT CABINET

The Student Cabinet, which is the official voice of the student body in matters of campus-wide concern, includes in its purposes the fostering of a spirit of unity and loyalty to Ohio University and the coordinating of all campus extracurricular activities in cooperation with the Campus Affairs Committee.

The Student Cabinet consists of seven elected members:

President of the Student Body

Vice Presidents for:

Social Activities

Men's Judiciary and Standards

Women's Judiciary and Standards

Campus Service Activities

Scholastic and Cultural Activities

Organizational and Political Activities

Vice Presidents representing:

Interfraternity Council

Panhellenic Council

Men's Interdormitory Council

Women's Interdormitory Council

The Cabinet operates under a constitution of its own which has been approved by the Campus Affairs Committee. It has the delegated authority, with the approval of the Campus Affairs Committee, to consider, promote, and put into effect projects which pertain to student activities and, particularly, to promote a balanced campus-wide social program.

PUBLICATIONS

The *Ohio University Post*, the student newspaper, is published four times a week. *The Athena*, a yearbook published under student editorship, appears toward the latter part of the spring semester. The editorial and business offices for both publications are located in the Baker Center.

Opportunities are provided for practical work in copy writing and editing, photography, salesmanship, accounting, and business and editorial management. Students are encouraged to make application for the various positions on the publications staff through the respective editors and business managers.

There are also a number of salaried positions on both publications for qualified individuals. Applications for these positions are filed with the Dean of Men or the Dean of Women at certain announced times.

The Campus Affairs Committee, in consultation with the faculty advisers, is responsible for the selection of salaried staff members and for the overall management of the publications.

Sphere is the Ohio University literary magazine. Issued annually or semi-annually, it publishes student poetry, fiction, essays, and photography. It has a considerable campus circulation and is widely exchanged with student literary magazines from other schools. The magazine is managed by students and cooperating faculty members.

DRAMATIC AND FORENSIC ORGANIZATIONS

THE UNIVERSITY THEATRE. The University Theatre is established to serve two major objectives: first, to provide a broad cultural entertainment in theatre for the campus community, and secondly, to furnish opportunities for students at all levels to participate in significant educational theatre experiences. A program of major productions is presented under faculty supervision by students drawn from throughout the campus. Casts are chosen at public tryouts open to all students.

Included in the program each year are two plays presented as part of a four-year cycle representative of eight major periods of dramatic history from classical Greece to America of the early nineteen-hundreds. Other plays are drawn from the best of modern drama, both American and foreign, with an occasional original script.

THE UNIVERSITY PLAYSHOP. The University Playshop is a producing group comprised principally of student directors, actors, and technicians who are enrolled in courses in the School of Dramatic Art and Speech. However, roles in any Playshop production are open to all students in the University. Promising new scripts written by students are produced by Playshop.

READERS THEATRE. Each year Readers Theatre gives several presentations of drama, poems, and stories performed script-in-hand by groups of students, faculty, and townspeople. While students are often drawn from courses in the School of Dramatic Art and Speech, all interested students are eligible to participate.

THE OHIO VALLEY SUMMER THEATRE. The summer theatre, a joint project of the University and the Community of Athens, produces six plays each season and provides an opportunity for approximately twenty selected students to work and study full time in the theatre. Faculty members and townspeople work together with students in all phases of production.

THE MONOMOY SUMMER THEATRE. Ohio University leases the Monomoy Theatre in Chatham, Massachusetts on Cape Cod and operates it as a summer theatre for a ten-week season of eight plays. The acting company is made up of students regularly enrolled in the University summer session and productions are under the direction of members of the University faculty.

VARSITY INTERCOLLEGIATE DEBATE. Ohio University is an active member of the Ohio Intercollegiate Debate Association for men and for women. Numerous opportunities for participation are provided by an extensive program of local practice debates, together with frequent intercollegiate debates both in tournaments and before audiences.

FIRST-YEAR DEBATE. First-year debate is open to freshmen and to upperclassmen who have not had previous experience in intercollegiate debate. Discussion meetings and practice debates are held on the question and selected teams take part in an intercollegiate first-year debate tournament.

ORATORY CONTEST. Ohio University is an active member of three state oratory associations. In February the State Oratorical Contest for Men is held, followed in March by the State Oratorical Contest for Women, and in May by the State Peace Contest in which men participate.

CONTESTS IN ORAL INTERPRETATION AND EXTEMPORENEOUS SPEAKING. Each year selected students represent the University in intercollegiate contests in oral interpretation and extemporaneous speaking sponsored by the Ohio Association of College Teachers of Speech. Students interested in trying out for either of these events contact Dr. L. C. Staats, Director of Forensics, in Room 303 of the Speech Building.

RADIO STATIONS WOUB-AM and FM. Ohio University maintains these laboratory stations. The 250 watt AM station broadcasts on 1340 kc and has a range of approximately 30 miles. It broadcasts 17 hours a day, every day of the year. The University stations are non-commercial and educational. They provide radio students with practical experience in all aspects of broadcasting. Most of the responsibility for the operation of the stations and the preparation and production of the programs is in the hands of advanced students who work under close faculty supervision. In addition to the regular schedule, special events such as football games, lectures, and musical programs are broadcast through remote facilities of the stations. Many of the programs are beamed specifically to the citizens of Athens and the county, and are designed to acquaint them with the entire range of University activities.

THE TELEVISION LABORATORY. Closed circuit television equipment is available for laboratory and experimental work. Students enrolled in television courses are given practical experience in camera operation and the techniques of direction and production. The facilities of the laboratory are also used for the teaching of selected courses by television over the closed circuit campus facilities.

In January of 1963, WOUB-TV inaugurated its "open circuit" system of telecasting to the local and surrounding communities. Modern transmission equipment was installed in a new building approximately three miles to the southwest of the campus. A basic 1 kilowatt transmitter with a 25 gain antenna beams the signal to an area encompassing a 40 mile radius. The new educational station which operates in the UHF band on Channel 20 has a radiated power of 13,000 watts.

visual and 6,000 watts aural. The tower stands 871 feet above ground and is the tallest educational tower in Ohio. The program offerings of the National Educational Television and Radio Center (NET) are utilized in the daily broadcasts. A series of instructional programs will be presented in the future. A videotape recorder is utilized in the instructional and broadcast program and was a gift of the Ford Foundation and NET. A well-equipped studio area supplements the transmitting facility and is used in the daily laboratory work in classroom instruction.

MUSIC ORGANIZATIONS

Membership in music organizations, with or without academic credit, is open to all qualified men and women. Singing groups consist of the University Chorus, the University Singers, which is a small skilled choral ensemble of mixed voices, usually chosen from the University Chorus, the University Men's Glee Club, and the University Women's Glee Club.

The University Bands are composed of three musical organizations—the Symphonic Band, which maintains a well-balanced instrumentation of selected musicians; the Varsity Band, which serves as a recreational-laboratory group; and the football Marching Band, which is composed of all members of the Symphonic Band in addition to selected players from the Varsity Band.

The University Symphony Orchestra has a complete, well-balanced instrumentation of seventy. Several concerts, using the standard symphonic repertoire, are given on the campus during the year.

RELIGIOUS ORGANIZATIONS

CAMPUS RELIGIOUS COUNCIL. Representatives of the religious organizations constitute the Campus Religious Council. The council serves as a coordinating agency for the programs of the various groups listed, and initiates programs of an interfaith nature on the campus. The council is composed of the adult advisers and two student representatives from each group.

RELIGIOUS SOCIETIES

These organizations are sponsored by Athens churches or church-affiliated groups. All are social as well as religious in character and activities. Unless otherwise indicated, they are open to both men and women.

BAPTIST-DISCIPLE STUDENT FELLOWSHIP (Northern Baptist-Disciple)

BAPTIST STUDENT UNION

CANTERBURY ASSOCIATION (Episcopal)

CHRISTIAN SCIENCE ORGANIZATION

DESERET CLUB

EASTERN ORTHODOX CHRISTIAN FELLOWSHIP

GAMMA DELTA (Lutheran students—Missouri Synod)

HILLEL FOUNDATION (Jewish)
INTERVARSITY CHRISTIAN FELLOWSHIP (non-sectarian)
KAPPA PHI (Methodist women)
LUTHERAN STUDENT ASSOCIATION
NEWMAN CLUB (Catholic)
PHI CHI DELTA (Presbyterian women)
SIGMA THETA EPSILON (Methodist men)
UNITARIAN YOUTH FELLOWSHIP
WESLEY FOUNDATION (Methodist)
WESLEY PLAYERS (Methodist)
WESTMINSTER FOUNDATION (Presbyterian)

SCHOLASTIC AND SOCIAL ORGANIZATIONS

HONOR SOCIETIES

These organizations confer membership in recognition of high scholastic attainment and the fulfillment of other constitutional requirements. Some of the societies recognize and encourage the development of a well-rounded personality and leadership and service qualities in addition to academic achievement. Unless otherwise indicated, membership is open to both men and women.

The first date is the founding date; the second the date the Ohio University chapter was established. Organizations are listed in the order of establishment at Ohio University.

TAU KAPPA ALPHA. 1908; 1916. Forensics.
PHI UPSILON OMICRON. 1909; 1921. Home Economics (women).
KAPPA DELTA PI. 1911; 1923. Education
PHI BETA KAPPA. 1776; 1929. Liberal Arts.
KAPPA TAU ALPHA. 1910; 1929. Journalism.
EPSILON PI TAU. 1929; 1934. Industrial Arts Education.
PHI ETA SIGMA. 1923; 1936. Freshman Scholarship (men).
MORTAR BOARD. 1918; 1938. Student Leadership and Service (senior women).
ALPHA LAMBDA DELTA. 1924; 1941. Freshman Scholarship (women).
BETA GAMMA SIGMA. 1913; 1951. Business Administration.
OMICRON DELTA KAPPA. 1914; 1951. Student Leadership and Service (men).
TAU BETA PI. 1885; 1953. Engineering (men).
PHI KAPPA PHI. 1897; 1956. All Academic Fields.
PI GAMMA MU. 1924; 1956. Social Science.
SIGMA PI SIGMA. 1921; 1958. Physics.
ETA KAPPA NU. 1904; 1960. Electrical Engineering.
SIGMA XI. 1886; 1961. Science.

NATIONAL PROFESSIONAL, RECOGNITION, OR DEPARTMENT SOCIETIES

These organizations confer membership in recognition of achieve-

ments in specific fields of education or service. Unless otherwise indicated, membership is open to both men and women.

ACCOUNTING	BETA ALPHA PSI
AGRICULTURE	DELTA TAU ALPHA
ARCHITECTURE	AMERICAN INSTITUTE OF ARCHITECTS
ART	DELTA PHI DELTA
BAND	KAPPA KAPPA PSI
BAND (women)	TAU BETA SIGMA
BUSINESS ADMINISTRATION (men)	DELTA SIGMA PI
CAMPUS SERVICE (men)	ALPHA PHI OMEGA
CAMPUS SERVICE (men)	CIRCLE K
CAMPUS LEADERSHIP (women)	CHIMES
CAMPUS LEADERSHIP (men)	J CLUB
CLASSICAL LANGUAGES	ETA SIGMA PHI
DRAMATICS	NATIONAL COLLEGIATE PLAYERS
EDUCATION	OHIO STUDENT EDUCATION ASSOCIATION
EDUCATION (graduate men)	PHI DELTA KAPPA
ENGINEERING	SOCIETY OF CHEMICAL ENGINEERS
ENGINEERING	AMERICAN SOCIETY OF CIVIL ENGINEERS
ENGINEERING	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ENGINEERING	INSTITUTE OF ELECTRONIC AND ELECTRICAL ENGINEERS
ENGINEERING	OHIO SOCIETY OF PROFESSIONAL ENGINEERS
GERMAN	DELTA PHI ALPHA
HISTORY	PHI ALPHA THETA
HOME ECONOMICS (women)	HOME ECONOMICS CLUB
JOURNALISM (women)	THETA SIGMA PHI
JOURNALISM (men)	SIGMA DELTA CHI
MANAGEMENT	SOCIETY FOR THE ADVANCEMENT OF MANAGEMENT
MATHEMATICS	MU SIGMA
MILITARY (men)	ARNOLD AIR SOCIETY
MILITARY (men)	PERSHING RIFLES
MILITARY (men)	PERSHING RIFLES 3RD BN.
MILITARY (men)	SCABBARD AND BLADE
MUSIC (women)	SIGMA ALPHA IOTA
MUSIC (men)	PHI MU ALPHA
MUSIC	MUSIC EDUCATORS NATIONAL CONFERENCE
PHOTOGRAPHY	KAPPA ALPHA MU
PHYSICS	AMERICAN INSTITUTE OF PHYSICS
PSYCHOLOGY	PSI CHI
RADIO	ALPHA EPSILON RHO
SOCIOLOGY	ALPHA KAPPA DELTA
SPEECH THERAPY	SIGMA ALPHA ETA
STUDENT ACTIVITIES (men)	BLUE KEY

SPECIAL INTEREST SOCIETIES

Departmental and other organizations that are not affiliated with national groups.

ADVERTISING AND MARKETING CLUB	INDUSTRIAL ARTS CLUB
ALPHA OMEGA UPSILON	INTERNATIONAL CLUB
AMATEUR RADIO CLUB	JUDO CLUB
ANGEL FLIGHT	ORCHESIS (Dance)
ASSOCIATION FOR CONSTRUCTIVE THINKING	OUTING CLUB
BAND	PERSHING CADETTES
CHEMICAL SOCIETY	RIFLE CLUB
CHILDHOOD EDUCATION CLUB	RUSSIAN LANGUAGE CLUB
CHI PSI OMEGA (Botany-Zoology)	SAILING CLUB
CONSERVATIVE CLUB	SOCIOLOGY CLUB
DER DEUTSCHE VEREIN (German)	STUDENTS' COMMITTEE FOR PEACE
DOLPHIN CLUB (Swimming)	SYMPHONY ORCHESTRA
EARTH SCIENCE CLUB	VARSITY "O" (Sports)
FINNETTES CLUB (Swimming)	WEIGHTLIFTING CLUB
FLYING BOBCATS	WOMEN'S FIELD HOCKEY CLUB
FLYING "O" (Sports)	WOMEN'S RECREATION ASSOCIATION
FOLK DANCERS	WOMEN'S TENNIS CLUB
FOOTLIGHTERS (Dramatics)	YEOMEN CLUB
GRADUATE CLUB	YOUNG DEMOCRATIC CLUB
ICE HOCKEY CLUB	YOUNG REPUBLICAN CLUB

SOCIAL FRATERNITIES

These self-perpetuating groups organize the social life of their members as a contributing factor to their educational program. Membership is upon invitation only.

INTERFRATERNITY COUNCIL (MEN)*

BETA THETA (1839)†—Beta Kappa Chapter, 1841
DELTA TAU DELTA (1859)—Beta Chapter, 1862
PHI DELTA THETA (1848)—Ohio Gamma Chapter, 1868
PHI KAPPA TAU (1906)—Beta Chapter, 1909
LAMBDA CHI ALPHA (1909)—Alpha Omega Chapter, 1918 (inactive 1937-1950)
THETA CHI (1856)—Alpha Tau Chapter, 1925
TAU KAPPA EPSILON (1899)—Alpha Beta Chapter, 1927
PIII KAPPA THETA (1889)—Psi Chapter, 1929
PI KAPPA ALPHA (1868)—Gamma Omicron Chapter, 1930
PIII EPSILON PI (1904)—Alpha Rho Chapter, 1933
PHI SIGMA DELTA (1910)—Alpha Delta Chapter, 1948
ACACIA (1904)—Ohio Trowel Chapter, 1949
SIGMA CHI (1855)—Delta Pi Chapter, 1949
ALPHA PHI ALPHA (1906)—Phi Chapter, 1950

SIGMA NU (1869)—Zeta Mu, 1951
 SIGMA ALPHA EPSILON (1856)—Ohio Gamma Chapter, 1953
 PHI KAPPA SIGMA (1850)—Beta Zeta Chapter, 1953
 DELTA UPSILON (1834)—Ohio Chapter, 1955
 TAU GAMMA DELTA—Local, 1957

PANHELLENIC ASSOCIATION (WOMEN)*

PI BETA PHI (1867)†—Ohio Alpha Chapter, 1889
 ALPHA GAMMA DELTA (1904)—Zeta Chapter, 1908
 ALPHA XI DELTA (1893)—Pi Chapter, 1911
 CHI OMEGA (1895)—Tau Alpha Chapter, 1913
 ALPHA DELTA PI (1851)—Xi Chapter, 1914
 ZETA TAU ALPHA (1898)—Alpha Pi Chapter, 1922
 PHI MU (1852)—Delta Delta Chapter, 1927
 SIGMA KAPPA (1874)—Beta Upsilon Chapter, 1949
 ALPHA EPSILON PHI (1909)—Alpha Phi Chapter, 1951
 KAPPA DELTA (1897)—Gamma Eta Chapter, 1955
 THETA PHI ALPHA (1912)—Delta Chapter, 1957
 DELTA SIGMA THETA (1913)—

*Listed in order of establishment at Ohio University.

†Year of founding of national organization.

INDEPENDENT GROUPS

These organizations are for students who are not affiliated with Greek-letter social groups.

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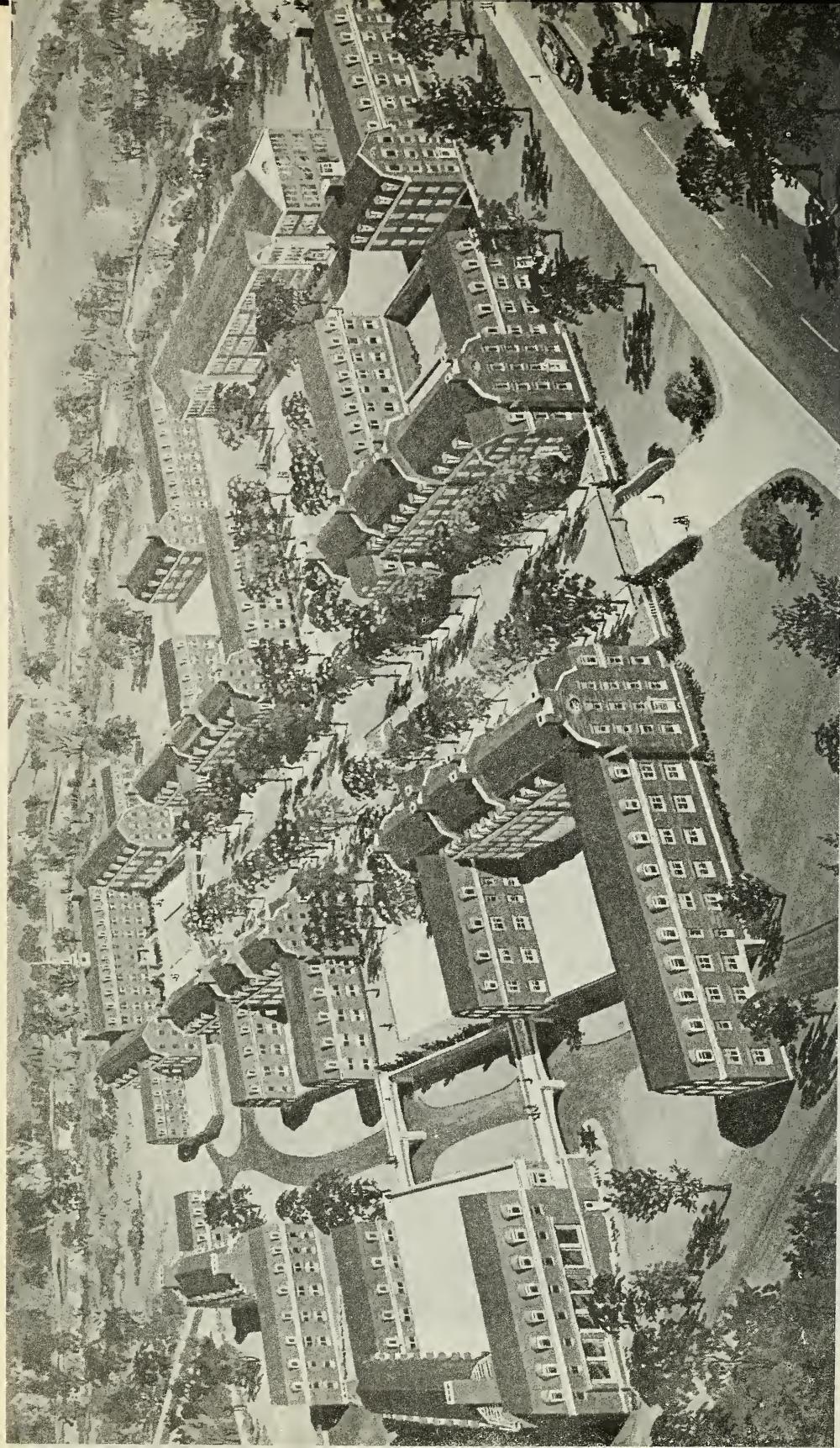
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STUDENT GOVERNMENT ASSOCIATIONS AND CLASS ORGANIZATIONS

BAKER CENTER HOUSE COUNCIL	LINCOLN HALL HOUSE COUNCIL
BAKER CENTER PROGRAM BOARD	LINDLEY HALL HOUSE COUNCIL
BERRY HALL HOUSE COUNCIL	MATTHEWS COTTAGE COUNCIL
BIDDLE HALL HOUSE COUNCIL	(Spanish)
BOYD HALL HOUSE COUNCIL	MEN'S INTERDORMITORY COUNCIL
BRYAN HALL HOUSE COUNCIL	NOSS COTTAGE COUNCIL (German)
BUSH HALL HOUSE COUNCIL	PANHELLENIC ASSOCIATION
CAMPUS AFFAIRS COMMITTEE	PARKS HALL HOUSE COUNCIL
CHUBB HOUSE COUNCIL (Graduate)	PERKINS HALL HOUSE COUNCIL
GAMERTSFELDER HALL HOUSE COUNCIL	READ HALL HOUSE COUNCIL
GROSVENOR HALL HOUSE COUNCIL	SARGENT HALL HOUSE COUNCIL
HOWARD HALL HOUSE COUNCIL	SCOTT QUADRANGLE HOUSE COUNCIL
INTERFRATERNITY COUNCIL	SENIOR CLASS OFFICERS
JAMES HALL HOUSE COUNCIL	SHIVELY HALL HOUSE COUNCIL
JEFFERSON HALL HOUSE COUNCIL	STUDENT CABINET
JOHNSON HALL HOUSE COUNCIL	TIFFIN HALL HOUSE COUNCIL
KAHLER COTTAGE COUNCIL (French)	VOIGT HALL HOUSE COUNCIL
	WASHINGTON HALL HOUSE COUNCIL
	WOMEN'S INTERDORMITORY COUNCIL



One hundred leading physicists from all over the world gathered at Ohio University for a two-day conference on "high energy particles".



The first four of eleven new dormitories on the West Green were completed in 1963. Five additional residence halls are scheduled for completion by 1965

UNIVERSITY REGULATIONS

Registration

Scholarship

Grade Reports

Honors

Probation

Transcripts

Attendance and Absences

Graduation

REGISTRATION

Details concerning the registration procedure are given in the schedule of classes which is obtainable at the office of the Registrar before each registration.

PERMITS TO REGISTER. A student enrolled in the University completes registration for a subsequent session in accordance with regulations announced by the Registrar.

A former student obtains registration information by calling at the office of the Registrar or by making his request by mail about a month before the opening of the session he wishes to attend.

A new student receives registration information by mail with other admission material.

STUDENT LOAD. A full-time student normally carries a minimum of 15 semester hours. A student on warning or probation carries a maximum of 14. A student must obtain approval from the dean of his college to carry less than the minimum prescribed by his college or more than 17 semester hours (19 if registered for an engineering degree), or more than 14 if on warning or probation. Specific regulations are given in the respective college sections of the catalog.

AUDITING PRIVILEGE. At the time he is advised a student may receive permission to audit courses. The courses must be marked "Audit" on the schedule and registration cards. The fee for auditing is the same as for credit. Subsequent to registration, changes from audit to credit or from credit to audit are made by change order during the period when changes are permitted.

CLASSIFICATION OF STUDENTS. A student who has been regularly admitted to the University and who expects to pursue a degree course is given rank according to the number of semester hours completed: Freshman, 0-24; Sophomore, 25-54; Junior, 55-86; and Senior, 87 and over.

All other students are unclassified. If an unclassified student has completed 24 or fewer semester hours, he enrolls as a special student in the University College; if he has completed 25 or more semester hours, he registers in the degree college of his choice as a special student. An unclassified student continues to enroll as a special student until he has made up high school credit deficiencies or is regularly admitted to a degree course.

A student who has earned a degree and desires to register for undergraduate courses without pursuing another degree enrolls as a special student in the degree college from which he was graduated; however, a student who wishes to enroll for a special interest subject only may register in the college offering the course.

A student who has been admitted to the Graduate College enrolls as a special student when he does not wish to pursue a program leading to a degree.

CHANGE ORDERS. When a student finds it necessary to add a course, withdraw from a course, or correct his registration, he requests a change order in the office of the dean of the college in which he is enrolled. The order does not go into effect until it has been presented to and accepted by the office of the Registrar.

A course may not be added after the close of the third week of a semester.

When a student withdraws from a course by change order his grade is recorded W, and the instructor destroys the class card on receipt of a notice from the Registrar.

A course cannot be dropped by change order by a student in a degree college after the third week, and by a student in the University College after the close of the eighth week of the semester; or in the case of a course that has a late starting date, one week after the starting date.

The following procedure is authorized for making a change: The student secures a change order form in the dean's office, and then consults the designated departmental representative or the instructor of each course being dropped or added. If the departmental representative or the instructor approves the change, he signs the change order form. If the change is not approved, the reason may be indicated on the change order form or in a separate communication to the dean. The change order form is returned to the dean of the college in which the student is enrolled for approval. After securing the dean's approval, the student deposits the change order form in the office of the Registrar and pays the change order fee of \$2 if it was assessed by the dean.

Changes correcting mechanical errors in registration during the first week of classes may be approved by the dean of the college following approval of the departmental representative.

Exceptions to the above regulations are made only with the approval of the Executive Committee.

The dates marking the close of each period mentioned are shown in the calendar.

CHANGE OF ADDRESS. A student is responsible for any university office communication sent to him at the last address reported to the office of the Registrar. Forms for reporting a change of home or Athens address are available in the Registrar's office.

CHANGE OF COLLEGE. Application for transfer from one degree college to another is made in the office of the dean of the college in which the student is enrolled and should be made before registration. The change goes into effect when the application, signed by the two deans concerned, has been presented to the Registrar and the transfer fee of \$2 has been paid. A student is required to fulfill all the requirements of the degree and the college to which he transfers. The change must be completed within two weeks after the opening of a session or the student remains in the college in which he was registered until the next session.

WITHDRAWAL FROM THE UNIVERSITY. Application is made on a withdrawal form obtained in the office of the dean of the college in which the student is enrolled. When the request for the withdrawal has been approved by the dean of the college, the order is referred to the Registrar who grants an official withdrawal after it has been determined that all obligations to the University have been met. A refund of registration fees is made according to regulations under "Fees."

"W" is recorded for a University College student who is granted a withdrawal from the University during the first eight weeks of a semester, and for a degree college student during the first three weeks; and on receipt of notice from the Registrar, the instructor destroys the class card. The weeks are counted from the date marking the opening of the semester.

When a University College or degree college student is granted a withdrawal from the University following the close of the eighth or third week of a semester, respectively, his grade in each course is recorded "WP" if he is passing or "WF" if failing at the time of withdrawal. Hours of "WP" are not included in total hours attempted; hours of "WF" are. "WP" and "WF" appear on the transcript of record.

A student who leaves the University without obtaining an official withdrawal is not permitted a refund of fees and is given F in all courses. The University reserves the right to ask a student to withdraw at any time when it considers such action to be in its best interests.

CREDIT. All credit is designated in semester hours. A semester hour is the equivalent of one recitation or two or more laboratory periods a week throughout a semester. In order to receive credit, students are required to take final examinations. The final examinations are held during the last week of a session and all students are required to take the examinations according to the schedule issued by the Registrar.

The final examination for honors work must be taken before the opening of the regular examination period. For information concerning honors work, refer to "Honors Work Program."

REGISTRATION OF MOTOR VEHICLES

University policy and regulations require that all types of motor vehicles operated by students in Athens, including student-owned automobiles, automobiles belonging to parents or relatives, motorcycles, and scooters, must be registered with the University. This registration includes permanent town residents, married and graduate students, and commuters. The registration fee will be paid the first semester during registration week and will register the vehicle for the entire academic year.

Upon registration and payment of the fee, each student will be given a windshield decal which must be attached to the lower right-hand corner of the windshield in accordance with state law.

If a car is brought to the campus after registration week, it must be registered within twenty-four hours at the office of the Director of Security.

Failure to register a motor vehicle will result in a fine. In addition, the student will be required to pay the registration fee, and he may be denied his driving privileges.

SCHOLARSHIP REGULATIONS

THE GRADING SYSTEM. At the close of a session or upon the completion of a course an instructor reports a letter grade indicating the quality of a student's work in the course. Points are assigned for each semester hour of credit earned, according to the following grading system:

Letter Grade	Explanation	Points	
		Per	Semester Hour
A	Very high	4	
B	High	3	
C	Average	2	
D	Passing but low	1	
F	Failure	0*	
I	Incomplete	0*	
W	Withdrawn	—**	
WP	Withdrawn Passing	—**	
WF	Withdrawn Failing	0*	
Cr. #	Credit without grade	—**	

*Hours are included in total hours attempted.

**Hours are not included in total hours attempted.

#Used at Ohio University for certain specified courses.

THE POINT-HOUR RATIO is the basis for determining scholastic standing. It is obtained by dividing the total number of points earned by the total number of semester hours undertaken, excluding courses in which the marks "W", "WP," or "Cr." are recorded (those with** in the table).

"W" is recorded for a University College student who is granted a withdrawal from a course or from the University during the first eight weeks of a semester, and for a degree college student during the first three weeks. University College students may not withdraw from a course after the close of the eighth week, and degree college students after the third week. The weeks are counted from the date marking the opening of the semester.

When a University College or degree college student is granted a withdrawal from the University following the close of the eighth or third week of a semester, respectively, his grade in each course is recorded "WP" if he is passing or "WF" if failing at the time of withdrawal. Hours of "WP" are not included in total hours attempted; hours of "WF" are. "WP" and "WF" appear on the transcript of record.

Unofficial withdrawals result in "F" grades.

"I" is given to a student who, in a course in which he is doing passing work, has a relatively small part of the session's work not

completed because of illness or other reason beyond his control as verified by the Dean of Men or the Dean of Women, or for some reason acceptable to the dean of the college in which he is enrolled. Two methods are available to the student for removing an "I" grade from his record: by arranging with the instructor to complete the work of the course within six weeks after the opening of the next semester he is in residence, or by re-registering for the course and completing it with a passing grade. An extension of time for the removal of an "I" may be made by the dean of the college.

POINT-HOUR RATIO (SCHOLASTIC AVERAGE). Except for hours of "W," "WP," and "Cr." the entire record including each grade in each course attempted, is used to determine probation status, eligibility for honors, and class ranking, and for all purposes where a cumulative point-hour ratio is requested.

MINIMUM STANDARD FOR GRADUATION. To meet the minimum standard for graduation from Ohio University, a student must have a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. This applies to his total record, and to his major or equivalent as determined by his college. For a student with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

REPEATING A COURSE. When a course is repeated, the last grade becomes the grade in that course for graduation purposes. Previous grades in repeated courses continue to be used to determine the cumulative point-hour ratio. A course may not be repeated after a more advanced course in the same field has been passed. A course passed may not be repeated in the semester in which the student is a candidate for graduation.

GRADE REPORTS

STUDENTS IN THE UNIVERSITY COLLEGE. At the end of the seventh and thirteenth weeks, grades for University College students are reported to the Registrar. The grades are available to the student through his counselor. The Dean of the University College sends a notice of warning at the close of the seventh week to the student who has a point-hour ratio below 1.6. At the close of the thirteenth week, a similar point-hour ratio results in a notice of warning being sent to the student and his parents.

A student who is on probation will have a notice of warning sent to his parents both at the seven and thirteen week grading periods if his point-hour ratio is below 2.0.

A final grade report is mailed to each student to his Athens address immediately after the close of the first semester, and to his home address after the close of other sessions.

STUDENTS IN DEGREE COLLEGES. At mid-semester instructors report to the student his standing in class. His dean receives a report if he has F or low D in a course. If at the end of a session a degree college student's cumulative point-hour ratio falls below 2.0 (C) but not low enough to place him on probation, a notice is sent to the student and to his parents by the dean of his college.

A final grade report is mailed to each student immediately after the close of a session.

HONORS

DEAN'S LIST. The Dean's List, compiled at the close of each session, includes the name of all freshmen who have a point-hour ratio of at least 3.0 (B) on a minimum load of 15 semester hours of credit; and the names of all upperclassmen who have a point-hour ratio of at least 3.3 on a minimum load of 15 semester hours of credit.

HONORS LIST. The Honors List, compiled each spring, is for the purpose of honoring students who have attained high scholastic standing. The student's cumulative record is the basis for determining eligibility for honors. The names of all undergraduate students who have attained a point-hour ratio of 3.0 (B) on a minimum total of 15 semester hours at Ohio University, and who in their last semester preceding the compilation of the List completed a minimum of 15 semester hours, are listed. Students with transferred credits who have the necessary standing at Ohio University as well as on their cumulative record are also honored.

Graduate students are honored if they have attained a point-hour ratio of 3.5 (B+) on a minimum of 12 semester credit hours earned in residence, and if in their last semester preceding the compilation of the List they completed a minimum of 9 semester hours.

The student who attains these honors will have an indication of them on his record and on the transcript of his record.

GRADUATION. The name of the recipient of the bachelor's degree is distinguished in the commencement program by the notation "with honor" if his point-hour ratio on all hours attempted is 3.0 to 3.49, and with "high honor" if 3.5 or above. The name of one with transferred credits is similarly distinguished if both his Ohio University and total record meet the requirement.

PROBATION REGULATIONS

Each student's record is reviewed at the close of each session. If a student's cumulative record shows a grade-point deficiency, he is subject to being placed on probation or dropped from the University. The point-hour ratio is obtained by dividing the total number of grade points earned by the total hours attempted. The entire record, including each grade in each course attempted, is used to determine probation status.

In determining points each hour of A equals 4, B equals 3, C equals 2, D equals 1, and F and WF equal 0. Hours of Cr. and WP are excluded in the computation.

The extent to which a student's record is below a point-hour ratio of 2.0 (C) determines whether he will be dropped, placed on probation, or continued on probation. His deficiency is determined by multiplying the total number of hours attempted by 2 and subtracting from this all points earned. For example, if a student has attempted 40 hours and has earned 65 points his deficiency is $15: 40 \times 2.0$ (the point-hour ratio required for graduation) equals 80. 80 minus 65 points earned equals 15.

DROPPED FROM THE UNIVERSITY. Any student whose grade-point deficiency at the close of any session exceeds the number of hours attempted will be dropped from the University. A student may be dropped even though he has not previously been on probation. A student on probation is dropped from the University if his grade-point deficiency has increased and he is not eligible to be removed from probation.

Normally a petition for reinstatement will not be considered until 12 months after the student was dropped. For an on-warning student this period is 24 months. He presents the petition to the dean of his college. Only extraordinary circumstances will prompt the Committee to consider a petition for second reinstatement, and then not until 24 months after the student was dropped.

A student who is dropped may not enroll for courses on campus, in a Branch, or in correspondence or extension courses conducted by Ohio University until he is reinstated.

PROBATION. A student who has attempted fewer than 30 hours is placed on probation when his grade-point deficiency is greater than 40 per cent of the number of hours attempted. A student who has attempted 30 hours or more is placed on probation when his grade-point deficiency is greater than 12 grade points. Normally a student on probation is limited to a maximum load of 14 hours.

PROBATION REMOVED. If a student on probation has attempted a total of fewer than 30 hours and his grade-point deficiency is not greater than 40 per cent of the total hours attempted, probation is removed. If a student on probation has attempted 30 hours or more and his grade-point deficiency is not greater than 12 grade points, probation is removed.

PROBATION CONTINUED. A student who has been on probation for one session may be continued on probation for one additional session if his grade-point deficiency has not increased and he is not eligible to be removed from probation. However, at the close of this additional session he must be eligible to be removed from probation or he will be dropped from the University.

TRANSCRIPTS

A photograph of a student's record is issued by the office of the Registrar as an official transcript. Transcripts are made only upon request. Each student is entitled to one copy free of charge. A transcript requested after the free copy has been issued costs \$1. For a group request of from five to ten copies the fee is \$5; up to twenty copies, \$10. The transcript fee must accompany the transcript request.

A transcript carries a statement of good standing except when a student has been dropped from the University because of poor scholarship, nonpayment of fees, or unsatisfactory conduct. A student on scholastic probation has his status indicated on his transcript.

CLASS ATTENDANCE AND ABSENCES

A student is expected to attend all scheduled meetings of his classes and all examinations. The instructor will state, at the first class meeting, his policy regarding absences.

An official notification of absence, enabling the student to make up work missed, stating the reason for absence will be issued to the student provided:

1. The student has been confined as a patient in the Health Center. (Issued by the Health Center.)
2. The student has participated in an authorized University activity such as: departmental field trip, musical and debate activities, ROTC function, varsity athletic trip. (Issued by the Office of the Dean of Women or Dean of Men.)
3. The student has participated in some special event approved by the Executive Committee. (Issued by the Office of the Dean of Women or Dean of Men.)
4. The student must return home because of a death in the immediate family. (Issued by the Office of the Dean of Women or Dean of Men.)

These are the only reasons for which an official University notification will be issued. Any other reasons for absence may be confirmed by written statements from other sources. All statements concerning reasons for absence must be presented to the instructor immediately upon the student's return to class.

The student is responsible for all class work and must make arrangements with the instructor to meet the requirements for making up work as prescribed by the instructor.

If a student feels that the instructor's decision regarding make-up or penalty for absence is unfair, he should first discuss the problem with his instructor. Only after discussion with the departmental chairman should he make an appeal to his academic dean.

ADDITIONAL REGULATIONS

Instructor's Attendance Reports:

Instructors will submit absence reports to the Dean of Men or the Dean of Women for students who are frequently tardy, frequently

absent on any one day of the week, absent from so many meetings that academic work is affected, or absent from all meetings of a class for one week. This will enable the Deans of Men and Women and the dean of the student's college to follow up irregular and excessive absences because it is often the first indication that a student is in trouble outside the classroom. A student may be dropped from the University because of excessive absences.

Class Probation and Penalties:

At the discretion of the instructor a student may be placed on class probation for excessive absences. The instructor notifies the student and the Dean of Men or Dean of Women who in turn notify the parents, the registrar, the dean of the student's college, the student, and the instructor who made the request. After being placed on probation an additional unauthorized absence will result in the student receiving "F" in the course. This "F" is reported to the Registrar immediately with the reason indicated on the class card.

Absences Before and After Vacations:

Each instructor will report to the appropriate personnel dean all absences from class on the two days preceding and following official vacation periods for the assignment of penalty absences. A penalty of one semester hour is added to the requirements for graduation for an absence from the student's last scheduled class preceding a vacation and his first scheduled class period following a vacation. If a student is absent from all periods on the day immediately preceding a vacation and his last class period on the second day preceding a vacation, he is penalized two semester hours. The same penalty applies to the two days immediately following an official vacation. A total of four semester hours may, therefore, be added to an individual's graduation requirements for absences incurred at any one holiday period.

Special Requests:

If unusual circumstances not covered by these regulations make it necessary for a student to request absence he consults the dean of his college who will confer with the instructors concerned. Executive Committee action may be required at the discretion of the deans involved.

GRADUATION

APPLICATION. A candidate for graduation must make application in the office of the Registrar, and pay the application fee, not later than the date given in the university calendar for the session in which he plans to graduate. The application fee for a baccalaureate or graduate degree is \$15; for the Associate in Arts degree, \$7.50. Application for graduation made after the time designated adds a penalty of \$5.

If an applicant fails to meet the requirements for graduation, he may reapply for the session in which he plans to complete the requirements. The reapplication fee is \$5. The penalty fee of \$5 is added for late reapplication.

SCHOLASTIC AVERAGE FOR GRADUATION. To meet the minimum standard for graduation from Ohio University, a student must have a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. This applies to his total record, and to his major or equivalent as determined by his college. For a student with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

The minimum number of semester hours required is increased by the number of hours received as a penalty for excess absences before or after a holiday or vacation, by the number of hours of repeated subjects, and by the number of hours in courses not allowed toward a degree by catalog designation or by the dean of the college, and may be increased by the number of semester hours earned in physical activity courses.

A student who fails to graduate because of a grade-point deficiency may take, with approval of his dean, up to a maximum of 6 semester hours of work in correspondence, extension, or Branches of Ohio University to make up his deficiency. Work may not be taken at another college to make up this deficiency.

MAJOR AREAS OF STUDY. Requirements for majors and fields of concentration are outlined by the individual colleges. A transfer student whose transcript shows the completion of most or of all the courses in a major area of study may be required by the dean of his college to satisfy the departments concerned that he has met Ohio University's standards in that area before it is recognized for purposes of graduation.

PROFICIENCY IN ENGLISH. A degree student who failed to make a grade of A or B in English 4 or in English 293 is required to take the English Proficiency Test the first time it is given after his record shows a total of 45 semester hours of credit toward graduation, provided he is not at that time enrolled in a composition course. A student who transfers to Ohio University in his junior or senior year takes the Proficiency Test during his first semester in residence, and one who transfers in his sophomore year takes the Test after his record shows a total of 45 semester hours of credit toward graduation, regardless of the grade he received in freshman English in another school. Any transfer student who must take English 3 at Ohio University to complete his freshman composition requirements may be excused from the Proficiency Test if his grade is A or B. Students exempted from, and given credit for, English 3 and 4 through the advanced placement program are exempt from the test, as are students who qualify for the privilege of substituting six hours of 100 level courses for English Composition.

The Proficiency Test is offered three times each semester and once each summer term. Dates are shown in the calendar. The student must assume the responsibility of registering for the Test when he becomes eligible. The Test consists of a few paragraphs of prose, written on a subject chosen by the student from a list of subjects given to

him at the Test. The papers are later marked Passed or Failed on the basis of the general adequacy and acceptability of the English they exhibit.

THE WRITING CLINIC

The student who fails the English Proficiency Test will be required to enroll in the Writing Clinic in order to reestablish his eligibility to retake the Proficiency Test. The Writing Clinic is a four-week course designed to provide practice and constructive criticism for the student on those aspects of writing in which he has demonstrated weaknesses. No credit toward graduation is given and no fee is charged for this course. Satisfactory completion of the Writing Clinic permits the student to retake the Test. The student must assume the initiative in registering for the Writing Clinic after he has failed the Proficiency Test.

CONDITION IN COMPOSITION

Any member of the faculty may recommend to the Committee on Proficiency in English that a *Condition in Composition* be given to a student who demonstrates a deficiency in English composition. This provision applies to students who have previously satisfied the English Proficiency Test requirement. A student who receives a *Condition in Composition* is required to enroll in the Writing Clinic and, after successful completion of the Writing Clinic, to retake and pass the English Proficiency Test.

PHYSICAL EDUCATION. *Men students* have a requirement of two semester hours credit in service courses, normally completed in the freshman year. This may be reduced by passing physical proficiency and sports tests which are offered upon request.

After completing one semester with credit the student may elect to try proficiency tests or to continue to register for additional credit. Having passed testing standards prescribed by the Division of Physical Education and Athletics, the student is excused from further requirements.

Men classified as veterans of the armed forces are not held to the one-semester rule and, therefore, may take proficiency tests on entrance to the University.

Women students are required to complete two semester hours credit in service courses.

Men and women may elect additional semesters in physical education service courses and, subject to exceptions listed by the colleges, apply four hours of this credit toward degree requirements. Students who elect beyond four hours must register as auditors.

See "Service Courses" in "Courses of Instruction" for additional regulations governing service course credit toward the degree requirement.

EXEMPTIONS, EXCUSES, AND DEFERMENTS are allowed for both men and women as follows:

Exemption from the physical education requirement is made automatically for a graduate student, for a student who is 30 years of age or over, or for a veteran who is 25 years of age or over, provided he has completed the requirements up to and including the semester in which he attained the required age.

An excuse from the physical education requirement is granted to a permanently disabled student by the Director of Physical Education upon the recommendation of the Director of the Health Center.

Deferment—postponement for one semester—is authorized by the Director of Physical Education upon the recommendation of the Dean of Men or the Dean of Women for a student who has an excessive load in connection with part-time work or by the student's academic dean in cases of serious scheduling conflicts. Any student who is granted a deferment in physical education courses must complete before graduation the requirement he otherwise would have had to meet without deferment.

RESERVE OFFICERS TRAINING CORPS. The Army and Air Force R.O.T.C. offers a two-year basic course and a two-year advanced course. Once either course is elected, completion of that course becomes a prerequisite for graduation, unless the student is relieved of this obligation by proper authority. R.O.T.C. credit does not increase the total semester hours required for most degrees, provided the student utilizes his curricular elective hours for this credit. See college sections, and "R.O.T.C. Division."

RESIDENCE. The minimum requirement for students who complete fewer than 45 semester hours at Ohio University is the final year (two semesters) or sessions that total 25 weeks, with 30 hours of credit. The requirement for those who complete 45 or more semester hours is the final semester (15 weeks) or equivalent in sessions with 15 hours of credit.

The requirement for Branch students includes a minimum campus residence of 15 weeks with 15 hours credit. This may be completed at any time, and need not be the final weeks prior to receiving the degree.

The residence requirements apply to the Associate in Arts degree, except that Branch students may complete all requirements for this degree in the Branch.

Part-time students earn residence equivalent to the number of hours they complete.

Credit earned in off-campus extension classes and correspondence study does not count toward fulfillment of the residence requirement.

An exception to the final semester or final year of residence may be made in the case of a student who has otherwise met the minimum residence and scholastic requirements and who has completed all but six semester hours, or fewer, required for a degree. When this occurs, a student may complete the final semester hours, six or fewer, at another institution, or by extension, correspondence, or Branch study at Ohio University.

If a student begins graduate study before he completes all requirements for a bachelor's degree, residence for the bachelor's degree will

be reduced by as many weeks as credit hours of graduate work completed. The number of weeks subtracted will be credited toward the residence requirement for a master's degree if the credit is acceptable in the program approved for graduate work toward a degree. Residence used for meeting requirements for one or more bachelor's degrees may not be used for meeting the residence requirements for a master's degree.

The residence regulations apply to a student who has been approved for graduation in absentia and is completing his last year in an accredited professional school, except that the regulations apply to his residence before he leaves the University to attend the professional school.

IN ABSENTIA. In absentia permission is obtained in writing from the dean of the college in which the student is enrolled. Application for graduation in absentia is made by a student in the office of the Registrar before he leaves the campus. To obtain his bachelor's degree a student who has been approved for the senior-in-absentia privilege in an approved professional school must have completed a full year's work of the quality prescribed for the bachelor's degree at Ohio University, and be eligible for advancement without condition to the second year. The official transcript from the school, and the statement from the dean of the school certifying that he has satisfactorily completed the full year's work and is eligible for advancement without condition to the second year, must be in the office of Admissions, Ohio University, two weeks before the commencement date, or a notice of the last date it will be received prior to commencement must be sent.

A student graduating in absentia is excused from attending commencement exercises.

TIME LIMIT. The time limit for fulfilling the published requirements for a degree is five years from the date of first registration in the University. Requirements instituted subsequent to the student's initial registration are applicable at the discretion of the University. The following additional regulations apply.

1. A student who is advanced to a degree college at the end of his first year, and who does not change his major or equivalent, fulfills the requirements in effect at the time he first registered in the University.
2. A student who is retained in the University College for more than one year fulfills the requirements in effect at the time he enters the degree college. If he changes his major or equivalent he fulfills the requirements in effect at the time he makes the change.

A transfer student is governed by the same regulations, except that the number of years in which to complete the degree requirements is reduced by the number of years of transferred work.

GRADUATION WITH HONOR. A candidate for the bachelor's degree who is graduated with a point-hour ratio of 3.0 to 3.49 on all hours attempted is distinguished on the commencement program by the nota-

tion "with honor;" with 3.5 or above, by the notation "with high honor." A student with transferred credit is similarly distinguished if both his Ohio University record and his cumulative record meet the requirement.

A candidate who has successfully completed a program of study in honors work is, in addition, distinguished on the commencement program by the notation "with honors in _____," with the indication of the field in which he has achieved distinction.

HONORS WORK PROGRAM. Honors work is offered to give superior students freedom to pursue intensive study in their chosen fields. The aims of the program include acquisition of knowledge in a chosen field, integration of knowledge of one field with that of related fields, development of the ability to carry on independent investigation and research, enhancement of skill in the written expression of the results of reading or investigation, and development of creative talents.

Junior students who have attained a point-hour ratio of 3.0 or better on all work attempted and possess a talent to work independently may become candidates for a degree with honors in their chosen field of study. Notification is made by the Honors Program and Awards Committee before the beginning of the junior year. The Committee, with the approval of the student's dean, and the student's major department chairman grant approval for the honors work.

During the senior year, a final essay, research paper, or completed creative project which receives six semester hours credit is submitted to the Committee. Also, during the semester in which the student is a candidate for graduation he takes a comprehensive examination over the work in the major area of concentration. A student registered in the honors program who fails to maintain at least a 3.0 accumulative point-hour ratio is dropped from the program. If the honors project is in progress at this time, credit is received for the part of the subject completed. Students not receiving "satisfactory" on the comprehensive examination cannot graduate with honors in a special field.

Upon completion of the project a student whose adviser does not grant a grade of B or better is disqualified for honors in his field but retains course credit earned by his honors work. Final judgment on the projects of otherwise qualified candidates is made by the Honors Program and Awards Committee. A student who completes an acceptable project is graduated with honors in his special field. Suitable notation is made on the student's transcript and on the commencement program.

COMMENCEMENT. Degrees are granted at commencement exercises held at the close of each semester and the second summer term. Attendance at graduation exercises is required in academic costume. Students who have been granted permission to graduate in absentia are excused from attendance. Other candidates, due to unusual circumstances, may need to request absence. Application for excuse is made with the dean of the college. The application form which is filed with the Registrar includes instructions for the mailing of the diploma and carries a diploma handling charge of \$2.

A SECOND BACHELOR'S DEGREE. A student who desires two bachelor's degrees may meet the requirements for them either simultaneously or successively:

(a) If a student desires to complete the requirements for the two degrees simultaneously and have the degrees conferred on the same date, he must meet the particular subject requirements for both degrees; earn a minimum of 154 semester hours approved for the degrees (170 for two engineering degrees) with the requisite scholastic average, both on Ohio University work and on the total record when credit has been transferred from another school; and must have completed a total of nine semesters of college work or its equivalent, with a minimum of three semesters of residence, or the equivalent, at Ohio University. When the two degrees are offered by different colleges, the student must register in both colleges the session in which the degrees are to be conferred.

(b) If a student has met the requirements for two degrees as indicated above and desires to have the degrees conferred in successive semesters, he may do so without further credit or residence. He may, for example, have one degree conferred at the end of one semester or summer session and may make application for the second degree at a subsequent session. If the session closes with commencement exercises, he will be required to attend in academic costume unless his application for excuse from commencement is approved.

(c) If a student desires to take a second bachelor's degree after he has received his first, he must complete the subject requirements for the second bachelor's degree, earn a minimum of 30 acceptable semester hours beyond the requirements for the first degree with the requisite scholastic average and have at least an additional semester of residence, or equivalent, in the college offering the second degree with the completion of at least 15 acceptable semester hours.

THE UNIVERSITY COLLEGE

GAIGE B. PAULSEN
DEAN

BERNARD R. BLACK
ASSISTANT DEAN

Basic Preparation

for admission

to each of the

degree-granting

colleges

Two-Year Terminal

programs leading

to the Associate in

Arts degree

THE UNIVERSITY COLLEGE

All freshmen enroll in the University College which concerns itself primarily with the problems of first-year students—their courses of study, and their guidance during the period of transition from high school to college. The freshman year in the University College and the following three years in one of the degree colleges represent the normal time required for completion of any of the baccalaureate degree programs. Students in the Ohio University Branches are enrolled in the University College for two years (62 hours).

During the first week of the semester in which a student is first enrolled, designated as "Freshman Week," the University College conducts a program of orientation for freshmen. All new students are required to attend Freshman Week activities. Various tests are given to assist students and their counselors in the selection of courses and educational objectives. Meetings are held during the week to help students become acquainted with the University—its history and traditions, regulations, opportunities for development, and student activities and organizations. A copy of the "Orientation and Studies in the Freshman Year" bulletin is sent to each new student prior to his enrollment in the University. It includes the program for the week, giving the exact time and place of all events.

A Pre-College Conference in the summer provides an opportunity to come to the campus for one day to complete the freshman tests, to learn the significance of the scores, to confer with a faculty counselor, to prepare a schedule of classes, and to complete registration procedures.

It is recommended that the prospective student complete the American College Testing Program. All students living in Ohio will be notified through their high schools about the program and the tests will be administered at special testing centers. These tests will develop information for the individual student, and Ohio University will also use the test results for purposes of classification and placement. Any student who will graduate in the lower third of his high school class will be required to take this or a similar test to determine his admission status.

The University College aims to provide an educational program that will best meet the individual needs of the student. No prescribed course of study is required of all. The courses in the freshman year are planned so as to provide studies that are generally recognized as most essential to the educated person. Students are advised to consider it a year of broad preparation for later specialization. General course requirements are determined so as to complement the work done in high school and to take into account the educational objective of the student.

General requirements of the University College are determined as follows:

1. English Composition—Eng. 3-4.

Students who place low on the English Placement Test are registered in Eng. 1. They complete Eng. 3-4 in their second and third semesters in the University. Hours and points earned in Eng. 1 are added to the requirements for graduation.

Students who demonstrate superior ability on the Placement Test and writing sample will be given an Honor Placement.

2. Fundamentals of Speech—Speech 1.
3. Physical Education—two semesters.

4. One year in each of two of the following groups:

In case a student has a specific requirement due to a high school deficiency, as in Humanities and Natural Science, the courses taken to meet these two requirements also meet the *two-group requirement*, or a course taken to meet one specific requirement also is counted as meeting one of the *two-group requirement*. In other words, a course or courses taken to meet specific requirements also apply toward the *two-group requirement*.

- A. *Humanities*: (a) Foreign language; (b) Humanities 7, 8—The Great Books (see "General Studies"); (c) Fine Arts 17-18—Introduction to the Fine Arts; (d) Phil. 1—Principles of Reasoning, and Phil. 2—Moral Philosophies.

Students with less than two years of foreign language in high school are required to take a year in one subject in the Humanities group.

- B. *Mathematics*: Math. 3—College Algebra; Math. 4—Basic Mathematics for Business Analysis; Math. 9, 10—Fundamentals of Mathematics; Math. 14—Trigonometry; Math. 15—Freshman Mathematics; Math. 16—Analytic Geometry and Calculus.

Students who have had no algebra or plane geometry in high school take Math. 1—Elementary Algebra and Math. 2—Euclidean Geometry. Students who have had one year of algebra and no plane geometry take Math. 2, Math. 1 and Math. 2 are offered only in the Summer Session. Students are strongly urged to complete algebra and plane geometry in high school since completion of Math. 1 and Math. 2 is a graduation requirement which contributes no credit or points toward the bachelor's degree.

- C. *Natural Sciences*:

BIOLOGICAL—Biol. 1-2—The Living World (see "General Studies"); Bot. 3-4—General Botany; Zool. 3-4—Principles of Zoology.

PHYSICAL—Chem. 3-4 and 99—General Chemistry and Qualitative Analysis; Geol. 3-4—Elements of Geology; Phys. Sc. 3, 4—The Physical World; Phys. 5, 6—Introduction to Physics.

Students with less than two full years of laboratory science in high school take a year in one science in the area in which no science was taken in high school; i.e., if Biological Science was taken in high school the requirement is in Physical Science. (High school courses such as general science and senior science are excluded.) Exceptions to this requirement must be approved by the Dean of the University College.

- D. *Social Science*: Ec. 11-12—Principles of Economics; Geog. 3—Elements of Physical Geography, Geog. 4—World Regional Geography; Govt. 1, 2—American Government; Hist. 1, 2—Western Civilization in Modern Times; Psych. 1—General Psychology, Psych. 2—Principles of Psychology; Soc. Sc. 9, 10—Citizenship in the Modern World (see "General Studies"); Soc. 1—Introduction to Sociology, Soc. 2—Social Problems.

Students with less than two years in any combination of courses in social science taken in high school are required to take one year of social science.

In addition to the above listed courses, many courses have been selected which a freshman student may carry on an elective basis, but which do not meet the specific requirements outlined above.

The student normally plans his schedule so as to complete the University College requirements in the freshman year. A student who has chosen the degree he wishes ultimately to receive is advised to select courses from among those offered in the four groups above that are especially recommended for the particular curriculum he expects to follow. For example, it is suggested that a student who expects to pursue a program in the Arts and Sciences and who will have a requirement in language carry a language course to meet the humanities requirement, while a student who plans to major in the Fine Arts should select F.A. 17-18—Introduction to the Fine Arts, to meet the humanities requirement. The student who has not decided upon any definite course will find that the University College program affords him an opportunity to explore various fields of knowledge so that a wiser final choice may be made. No student's schedule may include more than five semester hours in courses not included in the general requirements or in any one of the four groups.

COUNSELING PROGRAM. This program is designed to help the student make wise decisions regarding his academic plans. In addition, it encourages him to develop initiative and increasing responsibility for his personal development. Each student is assigned to a faculty counselor selected on the basis of having professional interests similar to those of the student. Throughout the year the student confers with his counselor: at the beginning of each semester for schedule preparation, at the time of the two grade periods each semester (end of seventh and thirteenth weeks), and at other times as he may need advice or assistance.

ADVANCEMENT TO DEGREE COLLEGE. At the end of two semesters a student may be advanced to the degree college of his choice provided he has completed the Mathematics 1 and 2 requirement. Branch students are advanced after the completion of 62 hours. Graduation from the University requires the completion of all University College requirements. The student is advised to include courses for completing any unfulfilled University College requirements in his sophomore schedule of classes. Engineering students are advanced only if they have completed Math. 16 and have at least a 1.8 cumulative average.

TERMINAL PROGRAM LEADING TO THE ASSOCIATE IN ARTS DEGREE. The University College offers a program of study for the student who does not intend to complete a four-year degree program and who plans to spend only two years in the University. Its completion leads to the Associate in Arts degree.

The Associate in Arts program includes English composition, physical education, speech, Social Science 9 and 10, and other general education and career courses. The same standards of academic achievement as for the bachelor's degree are required during the progress of the program. The student must complete 62 hours with a minimum of 124

grade points. Application for the degree is made at the office of the Registrar at the time announced for all degree candidates and must be accompanied by a fee of \$7.50.

A number of curricula for terminal programs have been outlined. They furnish the student with a background for admission to certain professional schools or for employment in a special position. The outlined curricula include: Agriculture; Business, including General Business or Secretarial Studies; Home Economics; Journalism, with work in either Advertising or Radio Speech; Metalworking; Premortuary Science; Prepharmacy; Preveterinary Medicine; and Recreation Leadership. There are additional curricula, and other special programs may be planned to meet the needs of the student.

When the student decides to pursue one of these programs, he confers with his counselor and prepares an outline of courses which he will carry to complete the program. This is filed with the University College office. Credit earned while enrolled in a terminal program may be counted on a four-year degree course, subject to the approval of the dean of the degree college in which he later enrolls. A student who shifts to a degree program is required to complete all University College requirements. This shift from a terminal program to a degree program may involve spending additional time in completing the degree requirements, since some of these requirements are normally completed in the first two years and may not have been a part of the Associate in Arts program.

STUDENT HOUR LOAD FOR FRESHMEN IN THE UNIVERSITY COLLEGE. It is important that a student should establish good study habits and that he should normally complete one fourth of the work required for a degree (from 31 to 36 semester hours credit) during his freshman year.

So that a student may accomplish these things and carry a load adjusted to his demonstrated ability in high school, a full-time student not placed on special warning and not on probation is required to carry a minimum load of 15 semester hours credit. The maximum load will usually not exceed 17 semester hours (18 or 19 semester hours for an engineering student).

A full-time student placed on "special warning" (see Admissions), is required to carry a 12-14 semester hour load during his first semester. Loads in subsequent semesters are either normal (15-17) or probation (12-14).

Any exceptions to the above regulations—either to carry a load in excess of the maximum or less than the minimum—must be approved by the dean of the University College.



Liberian student addresses General Assembly of the Mock United Nations at Ohio University.

THE COLLEGE OF ARTS AND SCIENCES

RUSH ELLIOTT
DEAN

WILLIAM B. SHEEDER
ASSISTANT TO THE DEAN

Anthropology
Archaeology and Antiquities
Astronomy
Botany
Chemistry
Classical Languages
English
General Studies
 American Studies
 Latin American Studies
 Biology
 Great Books
 Physical Science
 Social Science
Geography and Geology
Government
History
Human Relations
Mathematics
Modern Languages
 German
 Romance Languages
 Russian
Philosophy
Physics
Psychology
Sociology
Zoology
Preparation for Teaching at the Secondary Level

THE COLLEGE OF ARTS AND SCIENCES

Ohio University remained a liberal arts college for almost a hundred years after it was founded. With the expansion of curricula and organization of new colleges and divisions during the last fifty years, the College of Arts and Sciences has held to what has been the central purpose of the college for a century and a half; namely, to provide opportunities for the student to secure a general, liberal education. A liberal education affords an acquaintance with the language, skills, and methods in some area at a level that is beyond introductory concepts and methods. It prepares the student for more advanced graduate or professional training in some fields or for immediate vocation.

These objectives are achieved through courses which make up the curriculum of the college, and through degree requirements so arranged that the student gets specialized knowledge in some particular field or area together with a fundamental education in the humanities, natural sciences, and the social sciences.

The College includes the following departments:

Botany	Modern Languages
Chemistry	French
Classical Languages	German
English	Russian
Geography and Geology	Spanish
General Studies	Philosophy
Government	Physics
History	Psychology
Human Relations	Sociology and Anthropology
Mathematics and Astronomy	Zoology

Departments of the College are accredited or recognized by leading professional associations. These include the Council on Social Work Education, the American Chemical Society, the American Psychological Association, and the Board of Registry of the American Society of Clinical Pathologists.

A student enrolled in any college at Ohio University may elect courses in any other college with considerable freedom. Thus, much of the course work required by the other colleges is offered by the faculty of the College of Arts and Sciences. In turn, a student pursuing a degree in this college may elect courses, in some instances completing a major, in departments of the other colleges.

When a student enters the College of Arts and Sciences he is assigned an adviser who is a member of the faculty teaching in the area in which the student expects to major. The faculty adviser will assist the student in the preparation of his schedule each semester so that a proper sequence of courses in the major and appropriate related courses are selected. The *student is responsible* for being certain that all requirements for the degree are being met.

The College offers two degrees—the Bachelor of Arts and the Bachelor of Science. The requirements for the degrees represent a considerable distribution of studies, yet they require sufficient stress in a major field to insure some degree of mastery of at least one area. All candidates in the College of Arts and Sciences must have a minimum point-hour ratio of 2.0 (C) on all hours attempted, including a 2.0 ratio in the major, but including only the final hours and points in repeated courses.

The normal resident load requirement for a student enrolled in the College is a minimum of 15 semester hours and a usual maximum load of 17 semester hours when not on probation, and a minimum of 12 semester hours and a maximum of 14 semester hours when on probation. Any exception to these load requirements must be approved by the dean of the College.

Students who do not complete all University College requirements in the freshman year are expected to have these completed before being advanced to the junior year. Students who have requirements which involve courses numbered below 100 should start meeting such requirements not later than the beginning of the sophomore year. This is particularly recommended in the case of foreign language. Registration for courses numbered below 100 is prohibited for juniors and seniors in many areas, and is discouraged in all areas.

BACHELOR OF ARTS

A total of 124 semester hours is required for the degree of Bachelor of Arts subject to the following conditions:

(a) At least 60 hours must be in courses numbered above 100. Courses above 100 for which elective credit is given do not count toward this requirement. Elective credit is given for courses taken in divisions or departments for which no major is provided in the College, as, for example, industrial arts, military science, and physical education, and for courses not listed as meeting degree requirements (p. 92). Exception is made for courses in Education above 100 required for teacher certification (p. 109). This applies only to students who complete all requirements for certification. A further exception is made for majors in Economics who may elect nine credit hours from among the following courses which will apply to the requirement for courses above the 100 level; Advertising 155; Business Law 255-256; Finance 110, 351; Management 211, 325; Marketing 155; Statistics 155, 341. Further exceptions may be made only on review by and approval of the dean of the College.

A maximum of eight elective credit hours in applied music; four in physical education activity courses, including the two-hour requirement; and six hours in industrial arts are accepted toward the 124 hour degree requirement.

(b) At least six hours in the major field must be in courses numbered above 300. (See preceding section.)

(c) A minimum total of 70 hours must include: English composition; foreign language, if required; courses in humanities, natural

sciences, and social sciences, as required (see "e" below); and all courses in the major in any department in the College of Arts and Sciences, or in the major in an approved department in another college.

(d) Not more than 40 hours in any one department may be counted in the 124 hours required.

(e) No course may satisfy more than one of the following requirements, and the courses selected to meet the requirements in foreign languages, humanities, social sciences, and natural sciences must be from departments other than that in which the student is a major. For example, an English major may not apply courses in English toward the humanities requirement, even though these be courses not required for the major, or in excess of the hours required for the major. Likewise, a zoology major must meet the natural science requirement in departments other than zoology. An exception is made for students who are excused from the requirement in English Composition 3-4 and who substitute English 101-102 or English 111-112 for this requirement. Credit toward the requirement in Humanities is allowed for these courses.

The specific requirements for the degree are:	Hours
ENGLISH COMPOSITION: Courses 3-4 (unless excused) -----	6
PHYSICAL EDUCATION: Activities courses as required -----	0-2
SPEECH: Fundamentals of Speech (or waiver) -----	1
FOREIGN LANGUAGE: Complete in sequence through course 102 in one language -----	0-16

A student who enters Ohio University from a foreign country and whose mother tongue is not English, may satisfy the foreign language requirement by demonstrating competence in English (to be approved by the chairman of the English department, or by passing the English proficiency test) or by taking a foreign language other than his own native language.

Achievement of proficiency in a foreign language equivalent to that attained upon completion of two college years of one language is required. A student who has had equivalent preparation (four years in one language in high school) to the above requirement may satisfy this requirement by passing an examination in the language concerned (the student is advised to take this examination as soon as practicable after his initial registration in the University and the examination must be completed prior to the semester in which the student is a candidate for graduation) or by completing two semesters of the language at the 200 level.

An exception is made for the student with two years of high school Latin who may complete the requirement by taking one year of Greek.

Credit for the degree is not extended for foreign language courses 1 and/or 2 (effective with 1961 summer session) or 101 and/or 102 (effective with 1963 summer session) if they constitute a repetition of work previously completed in high school. Students having two years

of one foreign language in high school should register for course 101 in the same language or course 1 of a different language. Students having four years of one foreign language in high school should register for a 200 level course of the same language or course 1 of a different foreign language.

HUMANITIES: Select courses from two or more of the following with at least six hours in one ----- 12

(a) Archaeology	(f) Fine Arts
(b) English courses numbered above 100	Of the fine arts courses, only those in the history and appreciation of fine arts satisfy the 12-hour group requirement. Music 5 (Music Appreciation) may be taken except in cases where Fine Arts 123-124 has been previously completed.
(c) Foreign language courses other than those necessary to complete the foreign language requirement.	
(d) Philosophy	
(e) Humanities 7, 8 or 107, 108—Great Books	

NATURAL SCIENCES: A one-year course in one department and at least a one-semester course in another----- 12

A minimum of a one-year course in biological science and a one-year course in physical science must be completed in either high school or college. If either requirement was not completed in high school, this must be done in college as part of the 12-hour requirement, and in courses which must include laboratory work as part of the course. If the requirement was completed in high school, the 12-hour requirement may be met in any two of the following science departments or courses:

Biological Sciences:	Physical Sciences:
(a) Biology 1-2	(a) Astronomy
(b) Botany	(b) Chemistry
(c) Psychology 226, 228, 312, or 314, except for psychology majors	(c) Geography 111 or 112 except for geography majors
(d) Zoology	(d) Geology
	(e) Physics
	(f) Physical Science 3, 4
	(g) Psychology 121, except for psychology majors
	(h) Mathematics (except 1, 2, 4)

Students who have completed Biology 1-2 can not receive credit for Botany 3-4 or Zoology 3-4. Students who have completed Botany 3-4 or Zoology 3-4 can not receive credit for Biology 1-2.

SOCIAL SCIENCES: Select courses from two or more departments with at least six hours in one department ----- 12

(a) Economics	(f) Psychology (except 121, 226, 228, 312, or 314)
(b) History	(g) Sociology
(c) Human Relations	(h) Social Science 9, 10, or 209, 210
(d) Geography (except 111, 112)	
(e) Government	

MAJOR: See departmental requirements for total hours and particular courses in the major and related fields recommended or required.

- (a) A minimum of 24 hours (exclusive of hours earned in methods courses), including six hours in courses numbered above 300, selected from a single department (see specific department requirements), in consultation with an adviser from that department; or
- (b) Dual Major—Fifteen hours beyond the introductory course, including six hours above the 300 level, in each of two closely related departments. Courses must be chosen with the approval of an adviser in each of the two departments. Courses taken in either or both of two departments for a dual major, even though not required for the major, cannot be used to meet the general area requirements in language, humanities, natural science, and social science.

A transfer student is required to complete at least eight hours toward the major in courses at the 100 level or above at Ohio University, with a point-hour ratio of at least 2.0, the courses to be approved by the department chairman. A transfer student completing the dual major is required to complete at least six hours at the 100 level or above in each of two departments at Ohio University, with a point-hour ratio of at least 2.0, the courses to be approved by the chairmen of the two departments.

A student may complete a major for the Bachelor of Arts degree in any of the following departments by meeting the specific requirements outlined above and the number of hours and courses specified by the department concerned: botany, chemistry, classical languages, dramatic art and speech, economics, English, geography, geology, government, history, home economics, journalism, mathematics, modern languages, music, painting and allied arts, philosophy, physics, psychology, sociology, speech therapy, and zoology.

The specific requirements in the departments in the College of Arts and Sciences are indicated in the descriptive material covering the department. Requirements in departments outside the College are determined by an adviser in the department.

It is left to the discretion of the dean of the College to approve modification of these requirements.

BACHELOR OF SCIENCE

A total of 124 hours is required for the degree of Bachelor of Science subject to the following conditions:

(a) At least 60 hours must be in courses numbered above 100. Courses above 100 for which elective credit is given do not count toward this requirement. Elective credit is given for courses taken in divisions or departments for which no major is provided in the College, as, for example, industrial arts, military science, physical education, and for courses not listed as meeting degree requirements. A maximum of eight elective credit hours in applied music; four elective credit hours in physical education activities courses, including the two-hour requirement; and six elective hours in industrial arts, are accepted toward the 124-hour degree requirement. Exception is made for courses in Education above 100 required for teacher certification (p. 109). Further exceptions may be made only on review by and approval of the dean of the College.

(b) At least six hours in the major field must be in courses numbered above 300 (see the preceding paragraph).

(c) A minimum total of 70 hours which must include: English composition; foreign language, if required; courses in humanities, natural sciences, and social sciences, as required (see "e" below); and all courses in the major in any department in the College of Arts and Sciences, or in the major in an approved department in another college.

(d) Not more than 45 hours in any one department may be counted in the 124 hours required.

(e) No course may satisfy more than one of the following requirements.

The specific requirements for the degree are: Hours

ENGLISH COMPOSITION: Courses numbered 3-4 (unless excused) -- 6

PHYSICAL EDUCATION: Activities courses as required ----- 0-2

SPEECH: Fundamentals of (or waiver) ----- 1

FOREIGN LANGUAGE: Two college years, or equivalent ----- 0-16

The foreign language requirement is two years of foreign language completed in college, or the equivalent completed in high school, or in high school and college. Two years of one high school foreign language are considered the equivalent of one year in college. Students who enter with two years of language but with less than four years, have a one-year requirement. Students who enter with less than two years of high school language have a two-year requirement in college.

If the language in which two years were completed in high school is continued in college, the student must complete through course 102 in this language to complete the requirement. If the student changes to a different language, one year of this language will complete the requirement. Credit is not extended toward meeting the language requirement for the first semester of a beginning language unless the second semester is completed.

Credit for the degree is not extended for language courses 1 and/or 2 (effective with 1961 summer session) or 101 and/or 102, (effective with 1963 summer session) if they constitute a repetition of work previously completed in high school.

HUMANITIES: Select courses from two or more of the following with at least six hours in one ----- 12

- (a) Archaeology
- (b) English courses numbered above 100
- (c) Foreign language courses other than those necessary to complete the foreign language requirement. Credit for the degree is not allowed for foreign language courses which duplicate courses completed in high school (as French 1 and/or 2 when one or two years of French had been completed in high school)
- (d) Philosophy
- (e) Humanities 7, 8 or 107, 108—Great Books
- (f) Fine Arts
Of the fine arts courses only those in the history and appreciation of fine arts satisfy the 12-hour group requirement. Music 5 (Music Appreciation) may be taken except in cases where Fine Arts 123-124 has been previously completed.

NATURAL SCIENCES: A one-year course in one department and at least a one-semester course in another ----- 12

A minimum of a one-year course in biological science and a one-year course in physical science must be completed in either high school or college. If either requirement was not completed in high school, this must be done in college as part of the 12-hour requirement. If the requirement was completed in high school, the 12-hour requirement may be met in any two of the following departments or courses:

Biological Sciences:

- (a) Biology 1-2
- (b) Botany
- (c) Psychology 226, 228, 312, or 314
- (d) Zoology

Physical Sciences:

- (a) Astronomy
- (b) Chemistry
- (c) Geography 111, 112
- (d) Geology
- (e) Physics
- (f) Psychology 121
- (g) Mathematics (except 1, 2, 4)

Courses meeting this requirement must be selected from departments other than the one in which the student is a major. Students who have completed Biology 1-2 can not receive credit for Botany 1-2 or Zoology 3-4. Students who have completed Botany 3-4 or Zoology 3-4 can not receive credit for Biology 1-2.

SOCIAL SCIENCES: Select courses from two or more departments with at least six hours in one department---

12

(a) Economics	(f) Psychology (except 121, 226, 228, 312, or 314)
(b) History	(g) Sociology
(c) Human Relations	(h) Social Science 9, 10, or 209, 210
(d) Geography (except 111, 112)	
(e) Government	

MAJOR: See departmental requirements for particular courses in the major and related fields recommended or required.

- (a) A minimum of 24 hours (exclusive of hours earned in methods courses), including six hours in courses numbered above 300, selected from one of the following departments: Botany, Chemistry, Geology, Home Economics, Mathematics, Physics, or Zoology in consultation with an adviser from that department: or
- (b) Dual Major—Fifteen hours beyond the introductory course, including six hours above the 300 level, in each of two closely related departments. Courses must be chosen with the approval of an adviser in each of the two departments. Courses taken in either or both of two departments for a dual major, even though not required for the major, cannot be used to meet the general area requirement in natural science.

A transfer student is required to complete at least eight hours toward the major in courses at the 100 level or above at Ohio University, with a point-hour ratio of at least 2.0, the courses to be approved by the department chairman. A transfer student completing the dual major is required to complete at least six hours at the 100 level or above in each of two departments at Ohio University, with a point-hour ratio of at least 2.0, the courses to be approved by the chairmen of the two departments.

It is left to the discretion of the dean of the College to approve modification of these requirements in exceptional cases.

SPECIAL CURRICULA

AMERICAN STUDIES PROGRAM

American Studies major, as an area, is an interdisciplinary program for students especially interested in the growth and nature of American culture. It enables the student to integrate work in American literature, social sciences, and philosophy. While students in this program will share a core of work in American Studies, flexibility is provided through a choice of field of concentration: Economics, English, Geography, Government, History, Philosophy, or Sociology.

Students will participate with professors in informal group meetings to discuss books, ideas, problems, and methods pertaining to this integrated program. A senior seminar, American Studies 297-298, designed to raise central questions concerning methods and assumptions of the various disciplines and their interrelationships, will be required of all American Studies majors.

The major requirement for the Bachelor of Arts degree consists of courses in two categories: A. General Core: 32 hours, consisting of



Expert instruction in aviation prepares the student for certification as a private pilot.



The electronic language laboratory aids the Ohio student in mastering a foreign tongue

Government 1, Sociology 1 or 101, Economics 11, History 101, 102, English 111, 112, Geography 202, Philosophy 212, and Seminar in American Studies 297-298. These courses may be used to satisfy area requirements. B. Major: A minimum of 18 hours in Government, History, Philosophy, or Sociology. Courses are to be determined by the department, but individual guidance will be provided in both of the above categories by the member of the American Studies Committee in the department in which the student is a major.

LATIN AMERICAN STUDIES PROGRAM

The Latin American Studies Program is an interdisciplinary curriculum for students interested in Latin American culture, history, and the Spanish language. The program will develop around a major in one of the following departments: Economics, Government, History, Sociology, or Spanish. Twenty-four hours of credit in courses with Latin American content will be required; some of these will be in the field of the student's major, while others will help to meet area requirements. For instance, a major in Spanish may take a course in Latin American history, which will apply toward the social science requirement.

A reading and speaking knowledge of Spanish is to be acquired through a program with a minimum of 21 credit hours in Spanish, which may apply toward the language requirement, or toward the major if that area is selected by the student.

This program will require a summer's residence in Mexico, Puerto Rico, or other suitable country in which arrangements can be made. The summer between the junior and senior years is recommended.

Courses of Latin American content now offered are Fine Arts 371; Economics 375; Geography 305; History 145, 146, 347, 348; Spanish 201, 202.

Courses with broad concern with political movements, international relations and social organization and which may be elected are the following: Economics 329 and 342; Government 216, 323 and 344; History 324; Sociology 321.

PREPARATION FOR DENTISTRY

The minimum requirement for admission to dental school is the completion of at least 64 semester hours of college work which must include general chemistry, organic chemistry, physics, zoology, and English. A broad training in courses other than natural science is urged. Predental students have the same degree-in-absentia privileges as premedical students (see "Preparation for Medicine").

The following sequence of courses is recommended. The requirements pertaining to English composition, physical education, and speech in the freshman year are not indicated in the curriculum below. (See the University College section of the catalog.)

Freshman Program

The University College Program should include:

	Hours	Hours
Chem. 3-4-99—General and Qual. Analysis	8	Zool. 3-4—Principles of Requirements and/or electives*
Math. 9—Fundamentals of	3	7

Sophomore Program

Chem. 113—Organic	4	Zool. 120—Comparative Vertebrate
Chem. 117—Organic Laboratory	2	Anatomy
Phys. 5, 6—Introduction to	8	Zool. 311—General Bacteriology†
Zool. 107—Prin. of Heredity	3	4 Requirements and/or electives (courses in English are recommended)**

Junior Program

Phil. 109—Logic	3	Zool. 301—Comparative Vertebrate
or		Anatomy—Mammalian†
Phil. 110—Introd. to	3	4 Zool. 305—Principles of Physiology
		Requirements and/or electives (Art 21 suggested)**

*See requirements in the University College section of the catalog.

**See requirements for Bachelor of Arts or Bachelor of Science degree.

†Suggested.

PREPARATION IN ENGINEERING PHYSICS

In order to meet the growing demand from industrial concerns and from agencies such as AEC and NASA for engineer-oriented scientists who have a broad basic education in fundamental science with less emphasis upon specialized technical training, this curriculum offers the student a wide variety of opportunities particularly in industrial and governmental laboratories. It is assumed that the high school graduate entering this program has had four years of mathematics and two years of foreign language. This leads to the Bachelor of Science Degree.

Freshman Program

	Hours	Hours
E.G. 1-Engr. Drawing	2	Phys. 113—General
Math. 16 and 101—Anal.		4 Requirements and/or electives
Geom. and Calculus	9	(Foreign language, if required)*

Sophomore Program

Chem. 3-4-99—General and Qual. Anal.	8	Phys. 114-115—General
Math. 102—Anal. Geom. and Calculus	4	8 Phys. 120—Inter. Laboratory
Math. 215—Adv. Applied	3	1 Requirements and/or electives**

Junior Program

Chem. E. 230—Prin. of Engr. Materials	3	Phys. 219-220—Elec. and Magnetism
Math. 216—Adv. Applied	3	6 Requirements and/or electives**
Phys. 201-202 Mechanics	6	

Senior Program

E.E. 207—Physical Electronics	4	Choose one of following—
E.E. 310—Semiconductors	3	Phys. 308—X-rays
Mech. E. 201—Kinematics	3	2 Phys. 310—Thermodynamics
Phys. 349-350 Atomic and Nuclear	6	3 Phys. 314—Spectroscopy
Phys. 361—Special Problems	2	3 Phys. 365—Nuclear Reactor Theory
Phys. 327-332—Adv. Laboratories	4	3 Choose two of the following—
Choose one of each	4	3 Phys. 305—Light
		3 Phys. 326—Acoustics
		3 Phys. 352—Quantum Mechanics
		3 Phys. 360—Solid State
		3 Requirements and/or electives**

*See requirements in the University College section of catalog.

**See requirements for the Bachelor of Science Degree.

PREPARATION FOR FORESTRY

The curriculum outlined will prepare a student for admission to a forestry program in an approved school of forestry at the completion of the junior year. This will permit the student to receive the Bachelor of Science degree from Ohio University (all requirements in foreign language, humanities and social sciences must be fulfilled at Ohio University) at the completion of one summer and one academic year in a school of forestry and the Master's degree from the school of forestry at the completion of the second academic year in that school. Ohio University has a cooperative arrangement with the School of Forestry of Duke University for this type of program and this may be extended to other schools of forestry.

Freshman Program		Hours	Hours
	Hours		
Bot. 3-4—General	8	Requirements and/or electives	
Math. 3-14—College Algebra and Trigonometry	6	(foreign language, if required, and humanities suggested)*	
or			
Math. 15-16—Freshman, Anal. Geom., and Calculus	10		
Sophomore Program		Hours	Hours
Bot. 117—Dendrology	3	Econ. 11-12—Principles of	6
Bot. 123—Introduction to Fungi	3	Math. 16—Anal. Geom. and Calc. (if not completed in freshman program)	5
Chem. 3-4-99—General and Quant. Anal.	8	Requirements and/or electives**	
Junior Program		Hours	Hours
Bot. 205—Elem. Plant Physiology	4	Phys. 5—Introduction to	4
Bot. 211—Plant Anatomy	3	Zool. 3-4—Principles of	7
Bot. 314—Developmental Plant Morphology	3	Requirements and/or electives**	
Bot. 203—Plant Ecology	4		
or			
Bot. 221—Plant Pathology	4		

PREPARATION FOR GOVERNMENT FOREIGN SERVICE

Students desiring to prepare for the foreign service officer examinations, which are given yearly, are advised to acquire as broad an education as possible. Facility in written and spoken English, competency in a foreign language, and a good background in economics, history, government, business or public administration, are essential.

PREPARATION FOR LAW

A student in the College of Arts and Sciences who plans to enter law school normally completes the specific requirements for the degree of Bachelor of Arts. No special curriculum is prescribed. The prelaw student may complete a major in the area of his principal interest. He is advised to select courses from as many of the following as possible: English composition and literature and American literature; history, with a preference for English and American; government; economics; sociology; at least one laboratory science and an additional advanced course is advised; mathematics; philosophy; ethics; logic; accounting; psychology; and a foreign language, preferably Latin.

*See requirements in the University College section of catalog.

**See requirements for the Bachelor of Science degree.

Courses in speech and training in expression, as well as activities that develop the capacity for independent thought and action, are recommended.

The Ohio Supreme Court has ruled that a student entering law school must be able to show that he possesses an undergraduate degree from an approved college if he wishes to take the Ohio Bar Examination. Law schools in the state of Ohio require the degree of all entering students regardless of the state in which they plan to take the bar examination.

The degree-in-absentia privilege is available to students who do not plan to seek admission to an Ohio law school. Students who have completed 94 semester hours at Ohio University with a point-hour ratio of 2.0 or above, on all hours attempted, and have satisfied the requirements for the degree of Bachelor of Arts or Bachelor of Science (including University College requirements) may obtain the degree after completing a full year's work of the quality prescribed for the bachelor's degree at Ohio University in an accredited school of law, including advancement, without condition, to the second year of law school. Prior to entering the school of law, the student must secure a statement in writing from the dean giving the senior-in-absentia privilege.

PREPARATION FOR MEDICAL TECHNOLOGY

Preparation in medical technology trains students in laboratory methods used in hospitals, physicians' offices, public health bureaus, and other laboratories concerned with medical diagnosis and investigation.

Technologists who wish to be recognized by the American Society of Clinical Pathologists and entitled to use the initials, *M.T.*, must have had a minimum of 94 semester hours of work in a college or university recognized by the regional accrediting association, and a year's training in an approved school of medical technology.

The Ohio University—Mount Carmel Hospital Affiliated Training for Medical Technologists fulfills these requirements and affords the student an opportunity to earn the bachelor's degree. After completing six semesters (a minimum of 94 semester hours with a point-hour ratio of 2.0 or above in all hours attempted, including the major, and with courses which meet degree requirements) at Ohio University, and while still registered in the University, prospective technologists spend twelve months in residence at Mount Carmel Hospital, Columbus, Ohio. Upon satisfactory completion of the University and hospital training requirements, the student is eligible to receive from Ohio University the degree of Bachelor of Science and to take the qualifying examination given by the Board of Registry of the American Society of Clinical Pathologists for the professional designation of Medical Technologist. Credit toward the degree for the hospital training program is extended only in case all basic science courses which are required for admission to the Mount Carmel Hospital affiliated training program are completed previous to the hospital residence.

Approval may occasionally be granted for completion of the hospital training at hospitals other than Mount Carmel if such hospitals have approved programs in Medical Technology and, if for reasons

of location or other factors, this would better meet the needs of the student.

The W. K. Kellogg Foundation of Battle Creek, Michigan, has granted the University the sum of \$4,000 to be used as a loan fund for students during their year at Mount Carmel Hospital. Application for aid is filed with the chairman of the Department of Zoology. Expenses to be met during the year in Columbus are room rent and a small sum for books and laboratory gowns. No fees are charged by Mount Carmel Hospital, nor does it provide remuneration, except that it furnishes board.

The requirements pertaining to English, physical education, and speech in the freshman year are not indicated in the curriculum below. (See the University College section of the catalog.)

Freshman Program

The University College Program should include:

	Hours	Hours	
Chem. 3-4-99—General and Qual. Analysis	8	Zoology 3-4—Principles of Requirements and/or electives*	7
Math. 3—College Algebra	3		
or			
Math. 9—Fundamentals of	3		

Sophomore Program

Chem. 107—Quant. Analysis	4	Zool. 304—Histology	4
Chem. 113—Organic	4	Zool. 311—General Bacteriology	4
Zool. 107—Principles of Heredity	3	Requirements and/or electives**	
Zool. 121—Elements of Anatomy	3		

Junior Program

Phil. 109—Logic	3	Zool. 309—Biological Chemistry	4
or		Zool. 312—Pathogenic Bacteriology	4
Phil. 110—Introduction to	3	Zool. 316—Animal Parasites	4
Zool. 225—Animal Microtechnic	1-2	Requirements and/or electives**	
Zool. 305—Principles of Physiology	4		

Senior Program

Med. Tech. 291—Urinalysis	3	Med. Tech. 295—Histologic Technic	2
Med. Tech. 292—Hematology	8	Med. Tech. 296—Basal Metabolism	
Med. Tech. 293—Bacteriology, etc.	10	and Electrocardiography	1
Med. Tech. 294—Chemistry	8		

PREPARATION FOR MEDICINE

Most medical colleges require their prospective students to spend from six to eight semesters in undergraduate preparation. A number of medical colleges give preference to holders of a bachelor's degree, and some require the degree for admission.

For most colleges the requirements for admission include general chemistry, organic chemistry, physics, zoology, comparative anatomy, embryology, and English. Courses in fine arts, government, history, economics, sociology, philosophy, and literature are strongly advised. A year's course in mathematics (Math. 9-10 or 15-16) is required by some and advised by most schools. A student who plans to complete only three years at Ohio University is advised to meet the degree requirements so as to be eligible for the degree-in-absentia privilege.

No specific area as far as the major is concerned is required by Ohio University in undergraduate preparation for medicine. The major may vary with the medical school which the student wishes to attend. In some cases a dual major may be advised.

*See requirements in the University College section of the catalog.

**See requirements for the Bachelor of Science degree.

DEGREE IN ABSENTIA. Students who have completed 94 semester hours at Ohio University with a point-hour ratio of 2.0 or above, on all hours attempted, and have satisfied the requirements for the degree of Bachelor of Arts or Bachelor of Science, may obtain the degree after completing a full year's work in an accredited school of medicine of the quality prescribed for the bachelor's degree at Ohio University, including advancement, without condition, to the second year of medical school, provided that before entering the school of medicine, the student secures a statement in writing from the dean giving the senior-in-absentia privilege.

The following sequence of courses is recommended. The requirements pertaining to English composition, physical education, and speech are not indicated in the curriculum below. (See the University College section of the catalog.)

Freshman Program

The University College Program should include:

	Hours	Hours
Chem. 3-4-99—General and Qual. Analysis	8	Zool. 3-4—Principles of Requirements and/or electives (student having a foreign language req't. is advised to register for language)*
Math. 9-10—Fundamentals of	6	
Math. 15-16—Fresh., Anal. Geom., Calc.	10	

Sophomore Program

Chem. 107—Quant. Analysis	4	Zool. 107—Principles of Heredity	3
Gk. 27—Greek Words in English	2	Zool. 120—Comparative Vertebrate Anatomy	4
Phil. 109—Logic	3	Requirements and/or electives (courses in English are recommended)**	
or			
Phil. 110—Introduction to Philosophy	3		

Junior Program

Chem. 113—Organic	4	Physics 5, 6 Introduction to	8
Chem. 117—Organic Laboratory	2	Requirements and/or electives**	
or			
Chem. 201-202—Organic	6		
Chem. 203-204—Organic Laboratory	4		

Senior Program

Chem. 311—Physical***	3	Zool. 305—Principles of Physiology†	4
Zool. 301—Comparative Vertebrate Anatomy—Mammalian†	4	Zool. 311—General Bacteriology***	4
Zool. 302—Vertebrate Embryology†	4	Requirements and/or electives**	

PREPARATION FOR NURSING

Ohio University does not have a school of nursing; however, students interested in nursing can obtain the Bachelor of Arts or the Bachelor of Science degree from Ohio University and then complete nurses training in an approved school of nursing. In many cases the time required for the hospital training is shortened as a result of the student entering the program with a bachelor's degree.

A recommended alternative is the completion of two years of prescribed college work at Ohio University and transfer to a collegiate school of nursing which grants the Bachelor of Science in Nursing degree upon completion of the program. The professional program in the collegiate school of nursing requires 32 months for completion, including vacation periods.

*See requirements in the University College section of the catalog.

**See requirements for the Bachelor of Arts or the Bachelor of Science degree.

***Suggested.

†Students leaving at the end of the third year should elect this in the third year.

A student who has completed a hospital school of nursing program and wishes to enroll at Ohio University for a degree in the College of Arts and Sciences will be granted a limited amount of credit toward the degree, following a review of her record by the University Examiner and the dean of the College.

The following curriculum includes courses which provide background for a nursing program, and will lead to the completion of the bachelor's degree at Ohio University. If the first two years of the program are completed, a student will be prepared for admission to a collegiate school of nursing.

Freshman Program

The University College Program should include:

	Hours	Hours
Chem. 3-4-99—General and Qual. Analysis	8	Psych. 71—Educational ----- 3
Psych. 1 General	3	Zool. 3-4—Principles of ----- 7 Requirements and/or electives*

Sophomore Program

Chem. 113—Organic	4	H. Ec. 1-2—Foods, Nutrition and Meal Planning ----- 6
Chem. 117—Organic Laboratory	2	Soc. 101—Principles of ----- 3
Eng. 101, 102—Eng. Literature or	2	Zool. 107—Principles of Heredity ----- 3
Eng. 111, 112—Chief American Writers	3-6	Zool. 121—Elements of Anatomy ----- 3
		Zool. 311—General Bacteriology ----- 4
		Requirements and/or electives**

Junior Program

Phil. 109—Logic or	3	Zool. 305—Principles of Physiology --- 4
Phil. 110—Introduction to	3	Zool. 312—Pathogenic Bacteriology --- 4 Requirements and/or electives**

Senior Program

Requirements and/or electives**

PREPARATION FOR OCCUPATIONAL THERAPY

Colleges offering programs in Occupational Therapy require two years of college work in preparation for the two years of professional work leading to the degree. The first two years may be taken at Ohio University, after which transfer can be made to another institution where the work will be completed and the degree conferred.

The first two years of college should include English 3-4 and six hours of literature; Chem. 3-4, 99, or Physics 5, 6; physical education; psychology, 6 hours; sociology, 6 hours; Zoology 3-4 and 107. The remainder of the credit to complete the minimum of 64 hours may be elected from education, foreign language, science, etc. The particular requirements of the school to which the student may wish to transfer should be followed in planning the program at Ohio University.

Further information relative to requirements and the profession of Occupational Therapy may be obtained by writing the American Occupational Therapy Association, 250 West 57th Street, New York 19, N.Y.

*See requirements in the University College section of the catalog.

**See requirements for the Bachelor of Arts or the Bachelor of Science degree.

PREPARATION FOR OPTOMETRY

The requirements for admission to schools of optometry are not uniform. A minimum of 60 semester hours exclusive of military science or physical education is required. The following suggested curriculum will meet the admission requirements for a collegiate program and consequently of most independent schools of optometry.

Freshman Program		Hours	Hours
Hours			
Chem. 3-4-99—General, and Qual. Analysis	8	Math. 15-16—Fresh., Anal. Geom., Calc.	10
Eng. 3-4—Composition	6	Physical Education	2
For. Language 1-2—Beginning or For. Language 101-102—Intermediate	8	Speech 1	1

Sophomore Program		Hours	Hours
Hours			
Chem. 113—Organic	4	Humanities	6-9
Chem. 117—Organic Laboratory	2	Phys. 5, 6—Introduction to	8
For. Lang. 101-102—Intermediate (if not taken in Freshman Program)	8	Social Science	6-9
		Zool. 3-4—Principles of	7

Further information relative to requirements and the profession of optometry may be obtained by writing to the American Optometric Association, Department of Public Information, 4030 Chouteau Avenue, St. Louis 10, Missouri.

PREPARATION FOR PHARMACY

Most schools of pharmacy require 60 semester hours of academic credit, exclusive of physical education and military science, for admission. The following program will meet such requirements.

Freshman Program		Hours	Hours
Hours			
Biol. 1-2—Living World	6	Physical Education	2
Chem. 3-4-99—General and Qual. Analysis	8	Social Science	3-6
Eng. 3-4—Composition	6	Speech 1	1
Math. 9—Fundamentals and			
Math. 14—Trigonometry	6		
or			
Math. 15—Freshman	5		

Sophomore Program		Hours	Hours
Hours			
Chem. 201-202—Organic	6	Phys. 5, 6—Introduction to	8
Chem. 203-204—Organic Laboratory	4	Humanities and/or social science	
Econ. 11-12 or Econ. 101-102—Principles of	6		

PREPARATION FOR PHYSICAL THERAPY

The following program, extending over a period of three years at Ohio University, is recommended to those students who wish to enter the field of physical therapy. Upon completion of 94 semester hours, if a scholastic average of 2.0 or better on all hours attempted has been maintained, the student is eligible for admission to a school of physical therapy fully accredited by the American Medical Association. Upon satisfactory completion of the three year program at Ohio University, including degree requirements, and the course in physical therapy, Ohio University will award the student the bachelor's degree.

Freshman Program

	Hours		Hours
Chem. 34-99—General and Qual. Analysis	8	Psych. 1—General	3
Math. 9—Fundamentals of	3	Zool. 34—Principles of	7
Requirements and/or electives (a course in swimming is advised for the physical education requirement)*			

Sophomore Program

Psych. 173—Child	3	Zool. 107—Principles of Heredity	3
Soc. 101—Principles of	3	Zool. 241—Elementary Bacteriology	4
Zool. 133—Anatomy and Kinesiology	4	Requirements and/or electives (Psych.	
Zool. 134—Human Physiology	3	71, Educational is advised)**	

Junior Program

Phil. 109—Logic	3	Speech 195—Principles of	
or		Speech Correction	3
Phil. 110—Introd. to	3	Requirements and/or electives (activity	
Phys. 5, 6—Introd. to	8	courses in physical education,	
		Phys. Educ. 102, and Sociology	
		204 are advised)**	

*See requirements in the University College section of the catalog.

**See requirements for the Bachelor of Arts or the Bachelor of Science degree.

PREPARATION FOR PHYSICS TECHNOLOGY

The B.S. degree with a major in physics for preparation in physics technology allows the maximum undergraduate training in physics. This curriculum affords many opportunities for those students who plan to engage in physics as a career in industry or government laboratories as well as for those who wish to prepare for the M.S. or Ph.D. degree. This program can be completed in eight semesters if the student has had four years of mathematics and two years of a foreign language in high school.

Freshman Program

	Hours		Hours
Math. 16 and 101—Anal. Geom. and Calculus	9	Requirements, and/or electives (foreign language, if required)*	
Phys. 113—General	4		

Sophomore Program

Math. 102—Anal. Geom. and Calculus	4	Phys. 120—Intermed. Laboratory	1
Math. 215—Adv. Applied	3	Requirements and/or electives**	
Phys. 114-115—General	7		

Junior Program

Math. 216—Adv. Applied	3	Requirements and/or electives**	
Phys. 201-202—Mechanics	6		
Phys. 219-220—Electricity and Magnetism	6		

Senior Program

Phys. 349-350—Atomic and Nuclear	6	Choose one of the following:	
Choose one of the following:		Phys. 305—Light	3
Phys. 308 X-rays	2	Phys. 306—Acoustics	2
Phys. 310—Thermodynamics	3	Phys. 352—Quantum	3
Phys. 314—Spectroscopy	3	Mechanics	3
Phys. 365—Nuclear Reactor Theory	3	Phys. 360—Solid State	3
		Phys. 327-332—Adv.	
		Laboratories (2 hours each	
		semester)	4
		Requirements and/or electives**	

*See requirements in the University College section of the catalog.

**See requirements for the Bachelor of Science degree.

PREPARATION FOR SANITARIANS

A four year curriculum leading to the Bachelor of Science degree with a major in Zoology (see general requirements under Zoology). The program prepares students for work as public health sanitarians. Technical knowledge acquired can be applied to solve problems of a sanitary nature and to carry out procedures for the control of man's environment which affect his health.

Freshman Program		Hours	Hours
Chem. 3-4-99 General and Qual. Analysis	8	Zool. 3-4—Principles of	7
Math. 9-10—Fundamentals of	6	Requirements and/or electives (students having a foreign language requirement are advised to register for a language)	
Math. 15-16—Fresh., and Anal. Geom., Calc.	10	Psych. 1 suggested*	
Sophomore Program			
Chem. 113—Organic	4	Zool. 107—Principles of Heredity	3
Chem. 117—Organic Laboratory	2	Zool. 121—Elements of Anatomy	3
or		Requirements and/or electives (Gov't. 1,2 and Eng. 101,102 or 111,112 suggested)**	
Chem. 201-202—Organic	6		
Chem. 203-204—Organic Laboratory	4		
Junior Program			
Bot. 3-4—General	6	Zool. 311—General Bacteriology	4
Physics 5-6—Introduction to	8	Requirements and/or electives (Agriculture 1,2, Human Relations 303, Sociol. 101 suggested)**	
Zool. 219—Entomology	4		
Senior Program			
Chem. 107—Quantitative Analysis	4	Zool. 316—Animal Parasites	4
Zool. 305—Principles of Physiology	4	Zool. 319—Advanced General Bacteriology	4
Zool. 312—Pathogenic Bacteriology	4	Requirements and/or electives**	

PREPARATION FOR SOCIAL WORK

The Department of Sociology is a member of the Council on Social Work Education, and offers a limited sequence of courses for preprofessional training for social work in conjunction with a major in sociology. These courses also offer students preparing for medicine, law, teaching, and nursing an opportunity to become acquainted with the social services which they will encounter frequently in their professional activities.

At present there is a national need for professionally trained social workers. Generous financial assistance is available to enable qualified students to obtain a professional education at one of the many accredited graduate schools of social work throughout the nation. Students intending to pursue a career in social work should plan to continue their preparation beyond the undergraduate level, and should inquire regarding scholarships at the institution of their choice.

(1) *Preparation for Professional Training.* The undergraduate foundation for professional training at graduate schools of social work is a broad liberal arts education, with a concentration of studies in the social, psychological, and biological sciences. Students should elect sociology as their major field, with courses in social work to be chosen in consultation with their department adviser. Students majoring in other

*See requirements in the University College section of the catalog.

**See requirements for the Bachelor of Science degree.

fields are encouraged to register for courses in preprofessional social work (see *Sociology* in Courses of Instruction section of the catalog), and to consult with the department adviser concerning professional opportunities.

(2) *Preparation for Employment.* Some students will wish to seek employment with welfare agencies immediately upon completion of the Bachelor of Arts degree, and should meet the requirements outlined under *Sociology* in the Courses of Instruction section of the catalog. There are various positions in social agencies for which graduate education is not required. The duties of these positions can be better performed by the graduate who has had some orientation to social work through the recommended preprofessional courses.

PREPARATION FOR TEACHING

A student pursuing either the Bachelor of Arts or Bachelor of Science degree may meet the special requirements in education for certification to teach in the secondary schools in Ohio by completing the following:

	Hours
Psych. 71—Educational	3
Ed. 130—Secondary Education (or Ed. 125, Purposes and Practices of Education where appropriate)	3
Ed. 229—Curriculum and Teaching Practices	4
A methods course in major	2-3
Ed. 281—Student Teaching in the Secondary Schools	7-12

In addition, students must meet the following *general education* requirements for certification in Ohio, as set forth by the State Department of Education in *Laws and Regulations Governing the Certification of Teachers*, effective January 1, 1963:

General Education	30
a. Science and/or Mathematics	6
b. Social Studies (excluding Psychology)	6
c. Literature and/or Language	6
d. Fine and/or Applied Arts	6
e. Religion and/or Philosophy	6
Credit in either or both (d) and (e)	6
f. Excess credit in any or all areas above	6

Courses meeting the above *general education* requirements will apply toward meeting the area requirements for the bachelor's degree in the College. The two requirements may be planned simultaneously and met by the same courses.

The student is responsible for meeting the subject matter requirements for the teaching major and minor as established by the Division of Certification of the State of Ohio Department of Education. It is normally recommended that certification be obtained in two teaching fields.

PREPARATION FOR THEOLOGY

The American Association of Theological Schools recommends that a student planning to enter a theological seminary include in his undergraduate studies the following subjects: English (6 semesters), History (3 semesters), Philosophy (3 semesters), Natural Science (2

semesters), Social Science (6 semesters), Foreign Language (4 semesters selected from Latin, Greek, Hebrew, German, and French), and Religion (3 semesters). The Association advises the pre-seminary student to major in English, philosophy, or history. The student should also check the entrance requirements of the theological seminary of his choice and plan his course to meet these requirements, as well as the requirements for the Bachelor of Arts degree at Ohio University.

PREPARATION FOR VETERINARY MEDICINE

Schools of veterinary medicine require 60 semester hours of academic credit, exclusive of physical education and military science, for admission. The following program will meet such requirements.

Freshman Program		Hours
Chem. 3-4-99—General and Qual. Analysis	8	
Eng. 3-4—Composition	6	
Math. 9-10—Fundamentals of or	6	
Math. 15-16—Freshman, Analytic Geom., Calc.	10	

Sophomore Program		Hours
Chem. 113—Organic	4	
Chem. 117—Organic Laboratory	2	
Phys. 5, 6—Introduction to	8	
Zool. 107—Principles of Heredity	3	
Zool. 241—Elementary Bacteriology	4	
or		
Zool. 311—General Bacteriology	4	
Humanities and/or social sciences to make a total of 32 hours		

Veterinary schools often recommend three years of college work as preparation for veterinary medicine. In this case the student is advised to include Zool. 302, Vertebrate Embryology, and Zool. 309, Biological Chemistry, as part of the program for the third year.

PREPARATION FOR WATER RESOURCES

This curriculum is recommended for those students in the College of Arts and Sciences who wish to specialize in the investigation of surface and ground-water supplies. The student will major in geology, with additional courses in mathematics, chemistry, physics, and civil engineering.

Students should enter the program as freshmen in order to complete the curriculum in four years. The following sequence of courses is recommended as a minimum:

Freshman Program		Hours
Geol. 3-4—Elements of	6	
Chem. 3-4-99—General and Qual. Analysis	8	
Math. 15—Freshman Requirements and/or electives*		5

Sophomore Program		Hours
Geol. 111-112—Historical	6	
Geol. 131-132—Mineralogy	6	
Math. 16, 101—Analytical Geometry and Calculus Requirements and/or electives**		9

*See requirements in the University College section of the catalog.

**See requirements for the Bachelor of Arts or Bachelor of Science degree.

Junior Program

C.E. 120-121—Applied Mechanics -----	6	Math. 102—Analytical Geometry and Calculus -----	4
Geol. 224—Glacial Geology -----	3		
Geol. 241—Petrology -----	3	Physics 113-114—General -----	8

Requirements and/or electives**

Senior Program

C.E. 224—Fluid Mechanics -----	3	Geol. 314—Principles of Stratigraphy --	3
C.E. 241—Hydrology -----	3	Geol. 362—Structural -----	3
Geol. 313—Prin. of Sedimentation -----	3	Geol. 376—Ground Water -----	3

Requirements and/or electives**

Chem. 107, C.E. 10, Geol. 223, 282, and courses in Economics recommended.

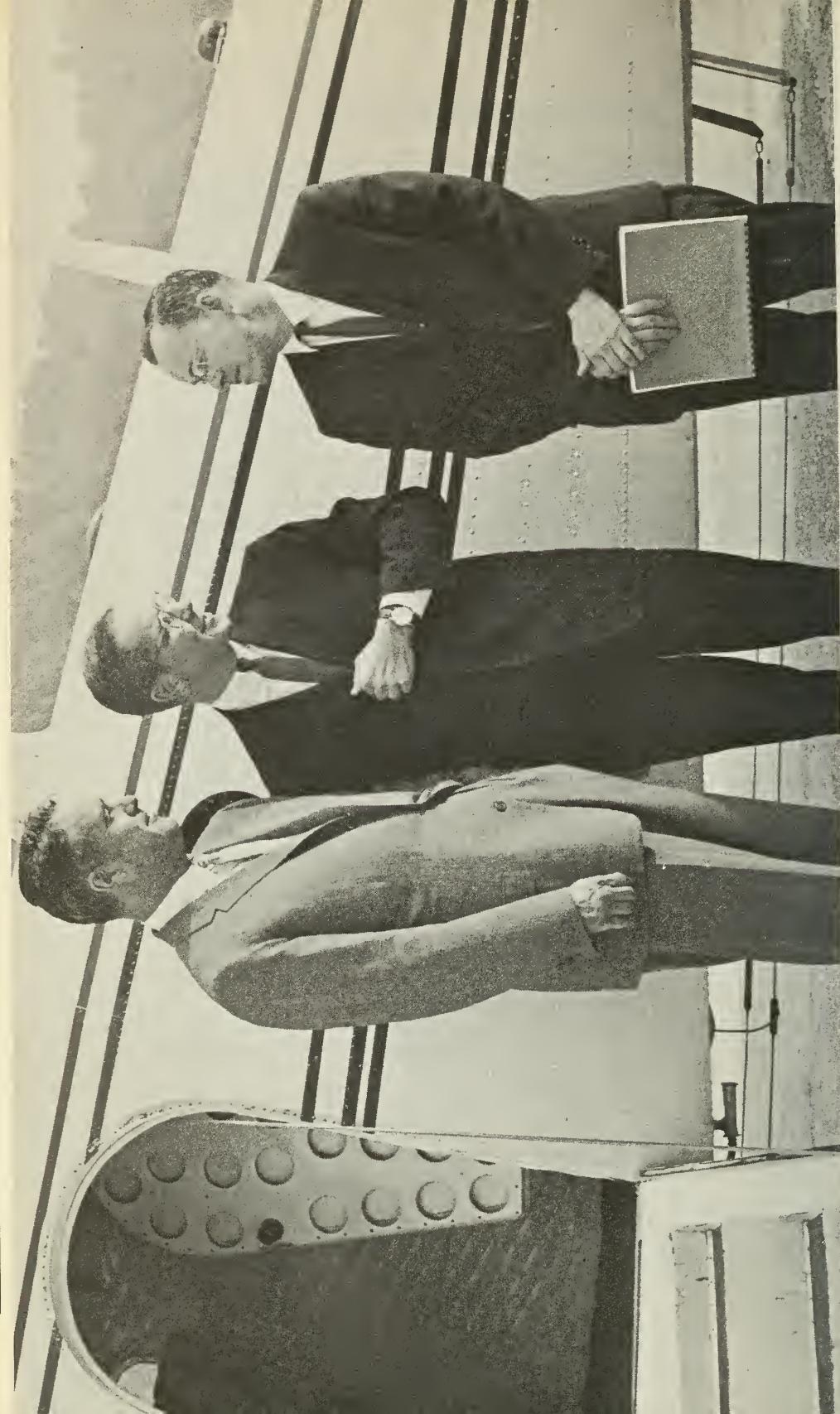
*See requirements in the University College section of the catalog.

**See requirements for the Bachelor of Arts or Bachelor of Science degree.

PREPARATION FOR WORK IN JUVENILE DELINQUENCY AND CRIMINOLOGY

Police and court services and the supervision and training of juvenile delinquents, young offenders, and criminals offer career positions for college graduates with special training in these fields. An increasing number of positions are open to sociologists in administration and research in penal institutions and probation and parole systems. Sociologists have served as chairmen of Federal and state parole boards, wardens of penitentiaries, superintendents of reformatories and juvenile training schools, prison counselors, staff members of diagnostic clinics, and actuaries for parole boards.

Sociologists make a distinctive contribution to the field of corrections through scientific research in prison administration, criminological statistics, prison culture, and correctional treatment. Research training is based upon an undergraduate curriculum such as that described under Sociology in the Courses of Instruction section of the catalog, with related work in government and psychology, but requires, both in planning and execution, a level of professional training beyond the Bachelor of Arts degree. Students interested in careers in the field should plan to take advantage of the financial assistance available to them at most universities on the basis of superior scholarship for the purpose of obtaining graduate degrees.



Sargent Shriver, President Vernon R. Alden, and Professor Roy Fairfield discuss the Peace Corps program at the Ohio University Airport

THE COLLEGE OF BUSINESS ADMINISTRATION

PAUL L. NOBLE
DEAN

HARRY F. EVARTS
ASSISTANT DEAN

Accounting

Advertising-Marketing

Agriculture

Aviation

Business Law

Economics

Finance

Management

Secretarial Studies

Statistics

THE SCHOOL OF JOURNALISM

The School is described in the next section

THE COLLEGE OF BUSINESS ADMINISTRATION

Consistent with its character and history as a pioneer educational institution, Ohio University inaugurated courses in business administration in 1893 at a time when few colleges and universities offered instruction in this area. As the conception of collegiate training for business broadened, the offerings were steadily expanded until today the College of Business Administration offers comprehensive programs of study in business and in economics which lead to the degree of Bachelor of Business Administration. The College is accredited by and is a member of the American Association of Collegiate Schools of Business.

The College also includes the Department of Agriculture, which offers programs of study leading to the degree of Bachelor of Science with a major in Agriculture, the Department of Secretarial Studies, which offers programs of study leading to the degree of Bachelor of Science in Secretarial Studies, and the School of Journalism (described in the next section), which offers theoretical and practical programs of study leading to the degree of Bachelor of Science in Journalism.

It is deemed as essential to teach students the art of living as it is to teach them how to earn a living. Further, it is a duty of every college graduate to participate in and, if possible, to assume responsibility for intelligent leadership in civic, governmental, professional, and social activities of life. Every student in the College of Business Administration, therefore, is required to take some courses offered by the other colleges of the University in order to widen his scope of knowledge and interest.

Through a wise use of the elective hours given in all programs of study in the College of Business Administration, a student may stress an interest by choosing courses offered by any other college of the University. Such courses are open to students in the College of Business Administration on the same basis as they are open to students in those colleges. The College of Business Administration, in turn, aims to serve students enrolled in the other colleges of the University and admits them to its courses on the same basis as students registered in the College of Business Administration.

The mutual relationship between the colleges whereby a student in one college may take courses in another gives a breadth of combinations in education which only a university can offer. The Colleges of Education and Business Administration, for example, cooperate in offering teaching majors in agriculture and business, and the Colleges of Engineering and Technology and Business Administration cooperate in offering industrial technology or an industrial option in mechanical engineering. However, it is impossible to set up predetermined curricula for each and every possible combination. For this reason, the College of Business Administration stresses its faculty advisory system for students. Each student may choose as an adviser a member of the College of Business Administration faculty who is a specialist in the student's field of interest. Student and adviser together

then mold the skeletal outlines of courses into an integrated program of study best suited to the student's individual needs.

A candidate for a degree in the College of Business Administration must complete the general university requirements for graduation which include a minimum of 124 semester hours with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. This point-hour ratio requirement applies to his total record and to his major or equivalent as determined by the college. For a student with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

BACHELOR OF SCIENCE WITH A MAJOR IN AGRICULTURE

The curriculum in agriculture is designed to provide the student with a broad, basic background in the areas of agriculture, business, and science. Persons completing the work for the degree are trained to take responsible positions in the various non-farming business and scientific phases of agriculture. This curriculum also provides opportunities for the student to achieve the basic skills and training necessary for farming and for advanced study in agriculture and business.

Considerable emphasis is stressed in the laboratory and classroom on the practical application of scientific techniques in farm operations. Opportunities for practical experience in all fields are provided.

Students enrolled in this curriculum take a minimum of 32 hours in agriculture courses of which 23 hours are in required courses; 30 hours in business courses of which 18 hours are in required courses; and 25 hours in science courses of which 13 hours are in required courses in addition to regular University requirements.

For a teaching major in agriculture see the College of Education section of the catalog. A Preforestry curriculum is offered in the College of Arts and Sciences and is described in its section of the catalog.

CURRICULUM IN AGRICULTURE

The university requirements pertaining to English composition, physical education, and speech are not indicated in the curriculum below. See UNIVERSITY COLLEGE.

Freshman Program

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Agr. 1—Introduction to Agriculture ---	3	Agr. 2—Introduction to Agriculture ---	3
Ec. 11—Principles of Economics -----	3	Ec. 12—Principles of Economics -----	3

Sophomore Program

Acct. 75—Elementary Accounting -----	3	Acct. 76—Elementary Accounting -----	3
Bot. 3—General Botany (4) or		Bot. 4—General Botany (4) or	
Zool. 3—Principles of Zoology (4) -----	4	Zool. 4—Principles of Zoology (3) ---	3-4
Agr. 30—Forestry -----	3	Agriculture elective -----	3
Geol. 3—Elements of Geology -----	3	Business elective -----	3
Science elective -----	4	Science elective -----	4

Junior Program

Agr. 121—Livestock Management -----	4	Agr. 216—Crops and Soils -----	4
Mkt. 155—Marketing Principles -----	3	Fin. 110—Money and Banking -----	3
Business elective -----	3	Agriculture elective -----	3
Zool. 241—Elementary Bacteriology or			
Zool. 219—General Entomology -----	4	Science elective -----	3

Senior Program

Agr. 201—Farm Practices or		Agr. 202—Farm Practices	-----	3
Agr. 211—Greenhouse Practices	3	Agriculture elective	-----	3
Agr. 235—Farm Management	3	Science elective	-----	3

A minimum of nine hours of required agriculture electives must be selected from the following courses:

Agr. 1,2—Introduction to		Agr. 212—Florist Practices	-----	2
Agriculture	3	Agr. 320—Agricultural Organizations	-----	3
Agr. 102—Gardening	3	Agr. 322—Agricultural Problems	-----	2-4
Agr. 104—Fruit Production	3			

A minimum of twelve hours of required business electives must be selected from the following courses:

Advt. 155—Advertising Principles	3	Mgt. 211—Industrial Management	---	3
Bus. L. 255-256—Business Law	3-3	Sec. St. 220—Business Communications	3	
Fin. 121—Corporation Finance	3	Stat. 155—Business Statistics	-----	4
Advanced Economics	3			

A minimum of twelve hours of required science electives may be selected from any laboratory science.

BACHELOR OF BUSINESS ADMINISTRATION

All students following programs of study leading to the degree of Bachelor of Business Administration must take the basic subjects indicated in the freshman, sophomore, junior, and senior programs of the curriculum outline. The sequence of the courses introduces a logical development of the student's knowledge but it can be varied to fit his or her particular interest.

The core curriculum permits a maximum of elective hours through which the needs of each individual student may be met and his interests may be developed. There are only two limitations on the choice of elective hours. They must be chosen so that no fewer than 54 semester hours required for graduation are in business and economics subjects, and no fewer than 47 semester hours are in subjects offered in other fields. This distribution of semester hours includes those earned in the University College and the basic subjects listed in the curriculum outline. The second limitation on the choice of elective semester hours is that they must be approved by the Dean of the College or the student's faculty adviser. This approval safeguards the student's own best interests.

FIELDS OF SPECIALIZATION. It is felt that a student who follows a program of studies leading to the degree of Bachelor of Business Administration automatically has chosen a field of concentration. Further concentration, therefore, by way of a major is not required; however, additional specialization may prove desirable, especially when a student seeks employment, and it is recommended. Some of the fields which may be stressed are listed. Others based on a student's particular interest may be developed.

ACCOUNTING	General accounting	General
	Administrative accounting	International
	Preparation for public (C.P.A.)	Labor relations
	accounting profession	Public utilities
DISTRIBUTION		FINANCE
Marketing		Banking
Advertising		Business finance
Retailing		Investments
Selling and sales management		
ECONOMICS		MANAGEMENT
Economic history		Personnel
Economic theory		Production
Business cycles		
		PREPARATION FOR LAW SCHOOL
		STATISTICS

Detailed information about the possibilities of developing a special interest may be obtained from the office of the Dean.

CURRICULUM IN BUSINESS ADMINISTRATION

The university requirements pertaining to English composition, physical education, and speech are not indicated in the curriculum below. See UNIVERSITY COLLEGE.

Freshman Program

The freshman program will be determined largely by the requirements of the University College.

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Math. 3—College Algebra (3) or		Math. 4—Basic Mathematics for	
Math. 15—Freshman Mathematics (5) ... 3-5		Business Analysis (3) or	
Ec. 11—Principles of Economics ----- 3		Math. 16—Analytic Geometry and	
		Calculus (5) ----- 3-5	
		Speech 3—Public Speaking ----- 2	
		Ec. 12—Principles of Economics ----- 3	

Acct. 75-76—Elementary Accounting, which is a curriculum requirement, is strongly recommended for the freshman year, especially for those students who plan to specialize in this field.

Sophomore Program

Acct. 75—Elementary Accounting ----- 3	Acct. 76—Elementary Accounting ----- 3
Mgt. 211—Industrial Management* ----- 3	Advt. 155—Advertising Principles** ----- 3
Mkt. 155—Marketing Principles ----- 3	Fin. 110—Money and Banking* ----- 3
Stat. 155—Business Statistics* ----- 4	Eng.—Literature* ----- 3
Electives ----- 3	Electives ----- 4
	16

Junior Program

Bus. L 255—Business Law ----- 3	Bus. L. 256—Business Law ----- 3
Fin. 121—Corporation Finance* ----- 3	Ec. (advanced)—Elective* ----- 2-3
Sec. St. 220—Business Communications* ----- 3	Eng. 293—Advanced Composition* ----- 3
Electives ----- 7	Electives ----- 8-7
	16

Senior Program

Mgt. 380—Management Policies and Practices* ----- 3	Electives ----- 16
Electives ----- 13	
	16

PREPARATION FOR LAW SCHOOL. A student in the College of Business Administration who plans to enter law school should follow the Bachelor of Business Administration degree curriculum and also elect, with the approval of his adviser, courses in other fields, especially American government, American and English history, English, philosophy, speech, and other theory courses in the College of Arts and Sciences except those courses which substantially duplicate material contained in the typical law school curriculum.

*May be taken either semester.

**Mkt. 258 or 301 may be substituted.

The Ohio Supreme Court in its regulations governing the admission to the practice of law in Ohio provides that a student entering law school must be able to show that he possesses an undergraduate degree from an approved college if he wishes to take the Ohio Bar Examination. Law schools in the state of Ohio have supplemented this Supreme Court rule by requiring the degree of *all* entering students, regardless of the state in which they plan to take the bar examination.

However, for the benefit of those students who do not plan to take the Ohio Bar Examination and who do not plan to seek admission to an Ohio law school, a degree-in-absentia program is available as described in the following statement.

A student who desires to enter a school of law located outside Ohio at the end of three years of college work and receive the Bachelor of Business Administration degree from Ohio University after completing his first year in law school may do so, provided the following conditions are met: the student has the written approval of the dean of the College of Business Administration; the requirements of the University College are met; a minimum of 94 approved semester hours, including the required courses in the Bachelor of Business Administration degree curriculum with the exception of Business Law 255-256, are completed with a point-hour ratio of 2.0 on all hours attempted; and a full year's work in an accredited law school is completed with an average equivalent to that prescribed for the bachelor's degree at Ohio University, and the student is eligible for advancement without condition to the second year.

If there is any possibility that a student will desire to take the Ohio Bar Examination, he is urged to obtain his undergraduate degree before entering law school.

PERSONNEL MANAGEMENT IN INDUSTRY. The College of Business Administration has designed a field of specialization which will prepare the student for personnel-management work either in industry or government service. Preparation in this field must be broadly based, and it is recommended that courses be selected on the advice and guidance of the faculty adviser from the offerings in the departments of Economics, Management, Secretarial Studies, Statistics, Government, Human Relations, Psychology, and Sociology.

OFFICE MANAGEMENT. Students interested in office management as an area of specialization should take the core curriculum for the Bachelor of Business Administration degree as well as Office Management, Office Procedures and Services, Business Machines, and Typewriting. In consultation with the faculty adviser, other courses should be selected from the following areas: accounting, management, psychology, sociology, government, speech, and mathematics.

AVIATION. Specialized courses in aviation are offered to afford today's students an opportunity to better prepare themselves for a future in the Jet and Space Age. Since the airplane and its many by-products have a great impact on the political, economic, and social aspects of

our society, a basic knowledge of aviation, including the possession of a pilot's license, could be a valuable asset to future professional and businessmen, educators, and administrators. One or more of the aviation courses might beneficially be incorporated into the programs of students preparing for any of these fields.

RESTAURANT MANAGEMENT. Students interested in restaurant management should take the core curriculum for the Bachelor of Business Administration degree plus courses in foods and nutrition selected with the advice and approval of the director of the School of Home Economics. In consultation with the faculty adviser, other courses should be selected from the following areas: accounting, government, management, psychology, and speech.

INDUSTRIAL OPTION IN MECHANICAL ENGINEERING AND INDUSTRIAL TECHNOLOGY. In recognition of the increasing need that executives in industry have a knowledge of and training in economics and business management, the College of Engineering and Technology, in cooperation with the College of Business Administration, offers two curricula, one leading to the degree of Bachelor of Science in Industrial Technology and the other leading to the degree of Bachelor of Science in Mechanical Engineering with an industrial option. These curricula are listed under the College of Engineering and Technology.

BACHELOR OF SCIENCE IN SECRETARIAL STUDIES

The curriculum in secretarial studies is designed to give the student: (1) an understanding of business administration, (2) a high proficiency in the office and secretarial skills, and (3) a well-rounded background in cultural subjects. Persons completing the work for the degree are prepared to take responsible secretarial and office management positions.

For those who enter without high school credit in typewriting and shorthand, the number of hours required in secretarial, business, and economics subjects is 65, and the minimum number of semester hours required in other fields is 54.

Students entering with high school credits in typewriting or shorthand should enroll in the advanced classes in these subjects. Whenever a student is unable to meet the prerequisite standard of achievement for the advanced courses in shorthand or typewriting, he may change to the beginning courses in these subjects. The hours of credit earned, however, will be added to the hours required for graduation.

Special care is taken to enable students to gain secretarial experience supervised by a staff member of the department.

CURRICULUM IN SECRETARIAL STUDIES

The university requirements pertaining to English composition, physical education, and speech are not indicated in the curriculum below. See UNIVERSITY COLLEGE.

Freshman Program

The freshman program will be determined largely by the requirements of the University College.

The University College Program should include:			
First Semester	Hours	Second Semester	Hours
Ec. 11—Principles of Economics	3	Ec. 12—Principles of Economics	3
Sec. St. 15—Beginning Typewriting	2	Sec. St. 16—Intermediate Typewriting	2
Sec. St. 31—Beginning Shorthand	3	Sec. St. 32—Intermediate Shorthand	3

Those students who enter with high school credit in typewriting and shorthand should postpone the advanced courses in these subjects until the sophomore year.

Sophomore Program

Acct. 75—Elementary Accounting	3	Acct. 76—Elementary Accounting	3
Sec. St. 111—Advanced Typewriting	2	Advt. 155—Advertising Principles	3
Sec. St. 180—Business Machines	2	Sec. St. 181—Office Procedures and	
Mkt. 155—Marketing Principles	3	Services	3
Psych. 1—General Psychology	3	Mgt. 211—Industrial Management	3
Electives	3	Electives	4
	16		16

Junior Program

Sec. St. 151—Dictation and Transcription	3	Sec. St. 152—Advanced Dictation and Transcription	3
Fin. 110—Money and Banking	3	Fin. 121—Corporation Finance	3
Eng.—Elective	3	Eng.—Elective	3
Electives	7	Electives	7
	16		16

Senior Program

Bus. L. 255—Business Law	3	Bus. L. 256—Business Law	3
Sec. St. 220—Business Communications	3	Sec. St. 275—Secretarial Practice	3
Sec. St. 330—Office Management	3	Electives	10
Electives	7		16

PREPARATION OF SECRETARIES FOR SPECIALIZED FIELDS. Students may prepare themselves to do secretarial work in specialized offices; such as legal, medical, government, educational, merchandising, or advertising. These students follow the secretarial studies curriculum and, in addition, select courses from a prescribed group considered basic for training in the specialized field. Careful guidance in the selection of elective courses is given by the college adviser.

BUSINESS TEACHER TRAINING. Students preparing to teach business subjects in the high school should be as well prepared in the basic business and skill subjects as those trained to enter business offices. In order to prepare students for effective teaching of business subjects, the College of Education in cooperation with the College of Business Administration offers comprehensive majors in the business fields. These majors, which include bookkeeping-basic business and business education (comprehensive), are outlined in the College of Education section of the catalog.

THE SCHOOL OF JOURNALISM

LOREN J. HORTIN
DIRECTOR

Advertising-Management

Magazine Journalism

News Writing and Editing

Public Relations

Radio-Television News

THE SCHOOL OF JOURNALISM

BACHELOR OF SCIENCE IN JOURNALISM

The Ohio University School of Journalism is accredited by the American Council on Education for Journalism. It is one of a limited number of accredited schools and departments of journalism in the United States. As such, it is one of the members of the American Association of Schools and Departments of Journalism.

Journalism today is a profession—like medicine, law, teaching, or engineering. It requires its practitioners to be culturally educated and professionally trained. Blending the liberal arts with professional courses, Ohio University journalism students take approximately two-thirds of their courses outside the professional school.

Five sequences are offered, all leading to the degree of Bachelor of Science in Journalism: *Advertising-Management*, *Magazine Journalism*, *News Writing and Editing*, *Public Relations*, and *Radio-Television News*. Along with these sequences, several specialized study areas are possible—for example, scientific writing, religious journalism, or foreign correspondence. The master of science degree is also offered for work in journalism.

While working toward their degrees, students serve on the staff of the *Athens Messenger*, an independently-owned daily newspaper. The city editor, managing editor, and advertising manager are faculty members of the School of Journalism. The student staff members of the *Messenger* gather and write news, edit local and Associated Press copy, write headlines, and prepare advertising copy and layouts. This training prepares students to take and hold jobs immediately after graduation.

Practical experience is also available in the University News Bureau, in the Photography Department and in the journalism laboratories. Many students also add to their experience by helping edit the Ohio University *Post*, daily campus newspaper, the *Athena*, the University yearbook, and other campus publications.

In Radio-Television News, students get practical experience in preparing and broadcasting news over the University's radio and television stations. The United Press radio news teletype service is available for journalism students in this sequence.

INTERNSHIP PROGRAM. Consistent with its policy of combining class-work with practical training, the School of Journalism has inaugurated a Journalism Internship Program. Juniors or seniors who have ranked high in their courses are eligible for appointment as interns. The period of internship is ten weeks or more during the summer. The intern is provided with as varied experience in practical journalism as possible. The intern will be paid a moderate sum for his work and study. No credit will be granted for internship work itself. However, upon completion of the internship period, a student is permitted to enroll the following semester in Journalism 370—Internship, 3 hours credit. The selection of the interns is made by the Director of the School of Journalism.

CURRICULA AND REQUIREMENTS IN JOURNALISM

Not more than 40 hours in the School of Journalism may be counted in the 124 hours required for graduation. Not more than 12 additional hours may be counted in any one of the following departments: Advertising, Photography, Radio.

Journalism students must take a group of courses specifically selected to serve as a background for journalism. These courses should include at least 20 hours of courses numbered 200 and above in other social sciences, humanities, or natural sciences. But students may, with the approval of the director, substitute up to 18 hours of courses in agriculture, business, home economics, education, engineering, or other fields to permit a background for specialized reporting in the chosen field.

Non-journalism courses required of all students include:

	Hours		Hours
English Composition	6	Speech	1-5
Literature (above freshman)	6	Foreign Languages or Humanities	3-8*
Economics	6	Mathematics	3-6*
Psychology	3	Natural Sciences	3-6*
Sociology	3	Physical Education	2
Government	3	Typewriting	2*
History	6		

Other non-journalism courses are required, but they are not the same for all sequences. See individual sequences for listing.

FRESHMAN PROGRAM

Freshmen should meet the requirements of the University and the University College in English Composition, Speech, Physical Education, and a year's work in each of two of the following groups: Humanities, Mathematics, Natural Sciences, and Social Sciences. In selecting the groups, the student must conform to the specific requirements based upon high school deficiencies, if he has any. He should plan his program for the freshman year to include the following courses:

Sec. St. 15—Typewriting (2), unless he can operate a typewriter by the touch system

Hist. 1, 2—Western Civilization in Modern Times (6)

Psych. 1—General Psychology (3)

All students except those expecting to enter the Advertising-Management sequence should take F. A. 17—Introduction to Fine Arts (3), or two semesters of a foreign language. Students preparing for Advertising-Management will find it advantageous to take Ec. 11-12—Principles of Economics (6) in their freshman year and may, if necessary, have the requirement in History delayed to permit scheduling of the Economics course. Acct. 75-76—Elementary Accounting (6) also may be taken in the freshman year.

If a student chooses to fulfill his group requirements with science, he should take Biol. 1-2—The Living World (6), or Phys. Sci. 3, 4—The Physical World (6).

*Depending upon high school deficiency.

ADVERTISING-MANAGEMENT

Sophomore Program

	Hours	Hours
Acct. 75—Elementary Accounting	3	Jour. 146—Typography, Mechanics,
Advt. 155—Advertising Principles	3	and Makeup
Jour. 107—Newspaper Reporting	3	Mkt. 155—Marketing Principles
Students interested in Management will take in addition:		
Acct. 76—Elementary Accounting (3) and Jour. 105—History of American Journalism (3).		

Junior Program

Jour. 217—Newspaper and Magazine Editing	3	Jour. 247—Newspaper Advertising and Layout	3
Advertising students will take these courses:			
Advt. 286—Retail Advertising	3	Jour. 348—Advertising Production	2
Jour. 309—Radio-TV Advertising and Management	3		
Management students will take these courses:			
Bus. L. 255—Business Law	3	Mgt. 211—Industrial Management	3
Jour. 251—Contemporary Thought and Developments	3		

Senior Program

Jour. 277—Newspaper Advertising Practices	2 each semester	Jour. 306—Newspaper and Communications Law	2
Jour. 343—Newspaper Management			

Advertising students also will take Advt. 332—Copy Writing (2).

Management students also will take Psych. 261—Industrial Psychology (3).

Electives should include an advanced Economics course.

MAGAZINE JOURNALISM

Sophomore Program

	Hours	Hours	
Ec. 11-12—Principles of Economics	6	Jour. 105—History of American Journalism	3
Eng. 101, 102—English Literature or		Jour. 107—Newspaper Reporting	3
Eng. 111, 112—Chief American Writers	6	Jour. 146—Typography, Mechanics, and Makeup	3
		Soc. 1—Intro. to Sociology	3

Junior Program

Eng. 290—Creative Writing	3	Jour. 251—Contemporary Thought and Developments	3
Jour. 111—Reporting Practice	2	Jour. 329—Business and Magazine Journalism	2
Jour. 217—Newspaper and Magazine Editing	3	Photog. 133—Basic News Photography	3
Jour. 230—Reviewing and Criticism	2		

Senior Program

Jour. 221—Editing Practice	2 or	Jour. 322—Feature and Magazine Writing	3
Photog. 145—Workshop in Photography	3	Jour. 323—Advanced Feature and Magazine Writing	2
Jour. 306—Newspaper and Communications Law	2		

NEWS WRITING AND EDITING

Sophomore Program

	Hours	Hours	
Ec. 11-12—Principals of Economics	6	Jour. 146—Typography, Mechanics, and Makeup	3
Jour. 105—History of American Journalism	3	Radio-TV 79—Introduction to Radio-TV	2
Jour. 107—Newspaper Reporting	3	Soc. 1—Intro. to Sociology	3

Junior Program

Advt. 155—Advertising Principles	3	Jour. 251—Contemporary Thought and Developments	3
Jour. 111—Reporting Practice	(2 each semester)	Photog. 133—Basic News Photography	3
Jour. 217—Newspaper and Magazine Editing	3		

Senior Program

Jour. 221—Editing Practice	2	Jour. 307—Reporting of Public Affairs	2
Jour. 306—Newspaper and Communications Law	2	Jour. 325—The Editorial Page	2
		Jour. 343—Newspaper Management	2

PUBLIC RELATIONS

Sophomore Program

	Hours	Hours	
Advt. 155—Advertising Principles	3	Jour. 107—Newspaper Reporting	3
Ec. 11-12—Principles of Economics	6	Jour. 146—Typography, Mechanics, and Makeup	3
Jour. 105—History of American Journalism	3	Soc. 1—Intro. to Sociology	3

Junior Program

Jour. 111—Reporting Practice	2	Photog. 133—Basic News Photography	3
Jour. 217—Newspaper and Magazine Editing	3	Psych. 315—Social Psychology	3
Jour. 251—Contemporary Thought and Developments	3	Radio-TV 79—Introduction to Radio-TV	2
		Speech 3—Public Speaking	2

Senior Program

Advt. 332—Copy Writing	2	Jour. 329—Business and Magazine Journalism	2
H. R. 303—Human Relations	3	Jour. 348—Advertising Production	2
Jour. 306—Newspaper and Communications Law	2	Psych. 306—Psychology of Communication	3
Jour. 327—Public Relations Techniques	3	Soc. 336—Public Opinion and Mass Communications	3
Jour. 328—Public Relations	3		

The course in Human Relations and the advanced courses in Psychology and Sociology listed above are a partial fulfillment of the requirement that students must take at least 20 hours of courses numbered 200 and above in departments other than journalism, advertising, and radio.

RADIO-TELEVISION NEWS

Sophomore Program

	Hours	Hours	
Ec. 11-12—Principles of Economics	6	Radio-TV 79—Introduction to Radio-TV	2
Jour. 107—Newspaper Reporting	3	Radio-TV 180—Radio Speech	2
Photog. 133—Basic News Photography	3	Speech 2—Voice and Articulation	2

Junior Program

Advt. 155—Advertising Principles	3	Jour. 280—Radio-TV News Writing and Editing	2
Jour. 111—Reporting Practice	2	Radio-TV 301—Principles of TV Production	3
Jour. 251—Contemporary Thought and Developments	3		

Senior Program

Jour. 285—Radio-TV News Practice	4	Jour. 306—Newspaper and Communications Law	2
Jour. 303—TV News Production	2	Jour. 309—Radio-TV Advertising and Management	3

THE COLLEGE OF EDUCATION

GILFORD W. CROWELL
DEAN

RUSSELL A. MILLIKEN
ASSOCIATE DEAN

ELEMENTARY EDUCATION

SECONDARY EDUCATION

Agriculture
Bookkeeping-Basic Business;
Business Education
English
History and Government
Latin
Mathematics
Modern Languages
Science—Comprehensive
Social Studies—Comprehensive
Speech

SPECIAL SUBJECTS

Art
Home Economics
Industrial Arts
Music Supervision—General; Instrumental;
Elementary Schools
Physical Education—Men; Women
Speech and Hearing Therapy

GUIDANCE AND COUNSELING

SCHOOL ADMINISTRATION

CURRICULUM AND SUPERVISION

STUDENT TEACHING

CENTER FOR EDUCATIONAL RESEARCH AND SERVICE

TEACHING CERTIFICATES

THE COLLEGE OF EDUCATION

The College of Education is devoted to the education of men and women who intend to enter the fields of teaching and educational administration. A wide range of programs prepares students for teaching in elementary schools, high schools, and colleges; for positions as supervisors, school principals, or superintendents; and for such specialized educational work as that of the guidance counselor or school psychologist.

All these programs include a broad base of general education, intensive preparation in the subjects to be taught, and professional emphasis and focus which combine educational theory with actual practice in meeting the responsibilities of the profession. Each program is thus designed to prepare students to enter the profession possessing the liberal background, the functional knowledge, and the professional understanding and skill which are requirements for professional success.

The College of Education is accredited by the National Council for Accreditation of Teacher Education, and is approved for teacher training by the State of Ohio Department of Education.

BACHELOR OF SCIENCE IN EDUCATION

The degree, Bachelor of Science in Education, represents the completion of a program designed to develop in the student competence in three areas: in the broad awareness of the principal academic fields developed through a true university education; in the deeper study of the particular studies in which the student seeks the undergraduate mastery necessary for teaching these subjects; and in the understanding of the professional responsibilities of teaching, and demonstrated skill in meeting them.

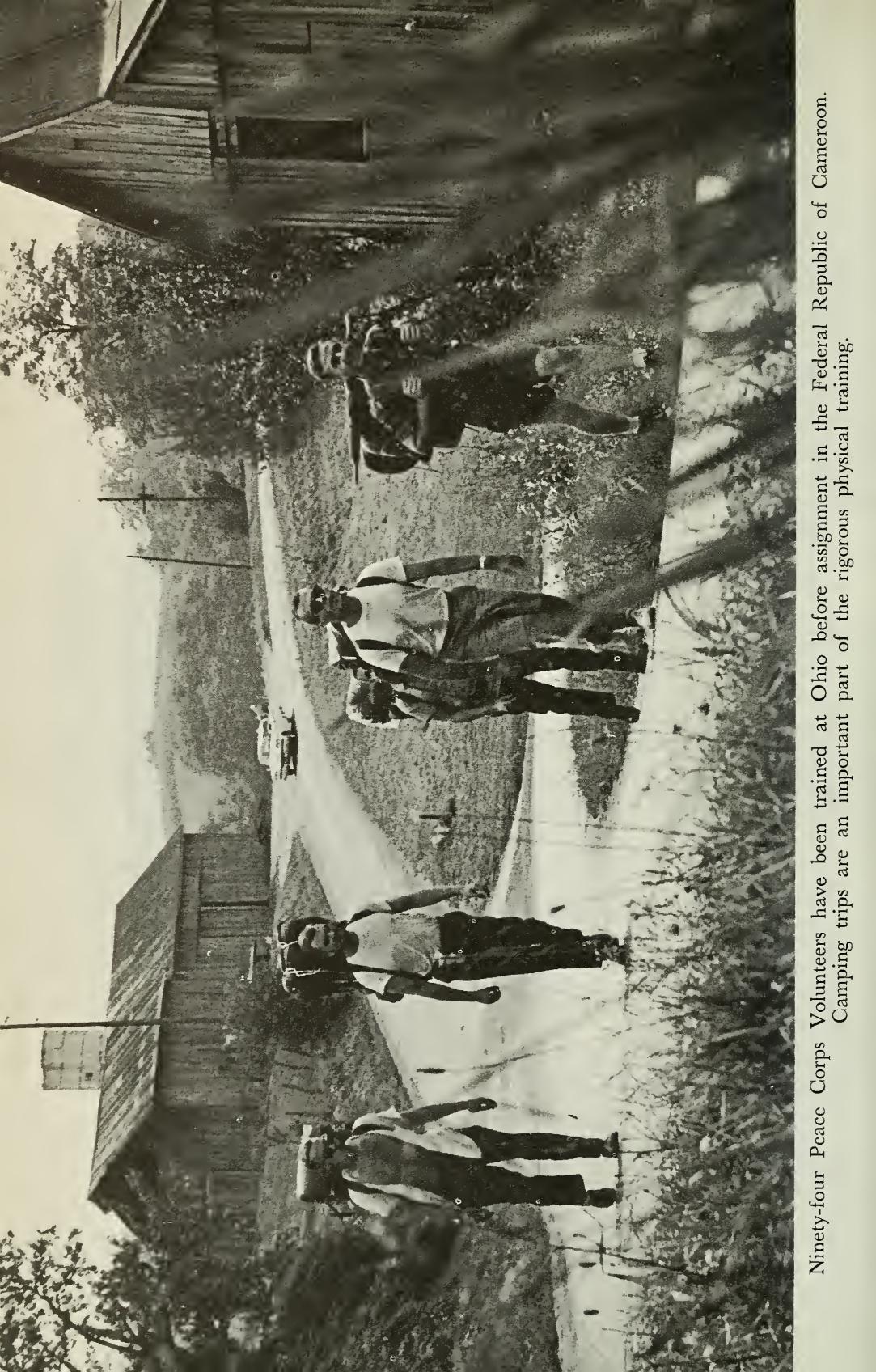
The degree is granted upon completion of the general graduation requirements of the University, including a minimum of 124 semester hours with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses, and in addition this same point-hour ratio on one of the approved programs in the College of Education. For a student with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits. These programs are of three main types:

Elementary Education. This program prepares for teaching in kindergarten-primary, or intermediate grades, with specialization in one of these groups.

Secondary Education. This program prepares for teaching any of the academic fields in high school. Students planning to teach at the secondary school level will ordinarily be prepared in one or more minor teaching subjects, in addition to their major field. Such minors should be carefully selected in consultation with an adviser, in view of the student's interests and abilities. (Outlines of majors are included in this section.)



Ohio continues to encourage the development of small resident groups where students can make friends easily and where they can develop a sense of belonging.



Ninety-four Peace Corps Volunteers have been trained at Ohio before assignment in the Federal Republic of Cameroon. Camping trips are an important part of the rigorous physical training.

Teaching Special Subjects. Such special subjects as art, home economics, industrial arts, music, physical education, speech, and speech and hearing therapy are ordinarily not limited to any grade level. Students who major in these subjects will be prepared to teach their specialty in both elementary and high school.

No certificates will be approved until students have completed the English and speech proficiency requirements.

ELEMENTARY EDUCATION

The following program includes all requirements, except those established by deficiencies in the high school pattern, for students who plan to specialize in elementary education.

	Hours		Hours
Psych. 1—General Psychology	3	Govt. 106—Current Political and Social Problems or	
Psych. 71—Educational Psychology	3	Govt. 1 or 2—American	2-3
Eng. 3-4—English Composition	6	Social Science Elective	3-4
Eng. 111 or 112—Chief American Writers	3	Ed. 102—Literature for Children	3
Speech 1—Fundamentals of Speech	1	Ed. 103—Studies of Children	3
Physical Education	2	Ed. 163—Teaching of Reading and Language	3
P.E. 102—Personal and Community Health	3	Ed. 165—Teaching Arithmetic in the Elementary School	3
P.E. 270—Teaching of Physical Education	1	Ed. 169—Teaching of Social Studies and Science in the Elementary School	3
Mus. 72—Music Fundamentals	2	Ed. 211—The Child and the Curriculum	3
Mus. 262—Music for the Classroom Teacher	2	Ed. 272—Student Teaching in the Elementary Grades	7-12
Art 3—Elementary Design for Teachers 2		Ed. 277—Field Experience	2
Art 160—Practical Design Workshop for Elementary Teachers	3	Ed. 288—Student Teaching Seminar	3
Select from the following:	9	Elective in Education	2
Biol. 1-2—The Living World		Ed. 200—The Development of Kindergarten Education	2
Phys. Sci. 3, 4—The Physical World		Ed. 201—Materials and Methods in Kindergarten Primary Education	2
Math. 8—Foundations of Elementary Arithmetic	3	(Required of Kindergarten-Primary majors)	
Hist. 1, 2—Western Civilization in Modern Times or		Electives to total 124 sem. hrs. for graduation.	
Soc. Sc. 9, 10, 209, 210	6		
Hist. 102—History of the United States	3		
Geog. 150—Geography and Environment	3		

Students will follow either an A or B outline of the above requirements by semesters, in consultation with an assigned adviser.

Kindergarten-Primary Education. A student majoring in Elementary Education may receive the kindergarten-primary certificate by completing the general pattern of the elementary curriculum as shown above. Student teaching must be done on the kindergarten-primary level and specialized courses in theory, materials, and methods of kindergarten-primary education must be taken as indicated by an adviser.

Validation of the regular four-year provisional elementary certificate for teaching the Slow Learner may be secured by completing course work in Special Education and Psychology, as outlined by the College of Education.

SPECIAL CADET PROGRAM

Ohio University will tentatively continue to offer a special two-year program. The four-year provisional "Cadet" certificate is granted upon the satisfactory completion of this accelerated course. The pro-

gram should be pursued in four regular semesters. The provisional Cadet certificate may be renewed only upon the completion of 24 semester hours of additional credit applicable to the degree in elementary education. No students will be admitted to this program after September 1, 1966.

The program for the Cadet Provisional Certificate is as follows:

Freshman Program			
First Semester	Hours	Second Semester	Hours
Eng. 3—English Composition	3	Eng. 4—English Composition	3
Hist. 1 or 2—Western Civilization in Modern Times	3	Ed. 102—Literature for Children	3
Biol. 1—The Living World or		Biol. 2—The Living World or	
Phys. 3—The Physical World	3	Phys. 4—The Physical World	3
Psych. 1—General Psychology	3	Mus. 72—Music Fundamentals	2
Speech 1—Fundamentals of Speech	1	Math. 8—Foundations of Elementary Arithmetic*	3
Art 3—Elementary Design for Teachers	2	P.E. 102—Personal and Community Health	3
P.E.—Physical Education	1		

Sophomore Program			
Mus. 262—Music for the Classroom Teacher	2	Ed. 288—Student Teaching Seminar	3
Ed. 163—Teaching of Reading and Language	3	Ed. 272—Student Teaching in the Elementary Grades	7-12
Ed. 165—Teaching Arithmetic in the Elementary School	3	Hist. 101 or 102—History of the United States	3
Ed. 103—Studies of Children	3		
Ed. 169—Teaching of Social Studies and Science in the Elementary School	3		
Geog. 150—Geography and Environment	3		
Ed. 277—Field Experience	2		

Students who have high school deficiencies will find it necessary in many cases to spend the summer session following the freshman year on the campus in order to meet all requirements in two years. The English Proficiency Test must be taken and passed before a student is permitted to enroll in Student Teaching.

SECONDARY EDUCATION, ACADEMIC AND SPECIAL

The following are the *general requirements* for all students in the College of Education who plan to specialize in the teaching of the academic subjects in the secondary schools or the special subjects.

	Hours
1. Psychology	6
Psych. 1—General Psychology	3
Psych. 71—Educational Psychology	3
2. Education	16-22
Ed. 130—Secondary Education (or Ed. 125—Purposes and Practices of Education, where appropriate)	3
Ed. 229—Curriculum and Teaching Practices	4
Ed. 281—Student Teaching in the Secondary Schools (and/or Ed. 272—Student Teaching in the Elementary Schools, where appropriate)	7-12
Methods in Major field	2-3
3. English	12
Eng. 3-4—English Composition	6
Eng. 101 or 102—English Literature and	6
Eng. 111 or 112—The Chief American Writers	6
4. Fine or Applied Arts or Philosophy (unless met by the Major)	6
5. Mathematics (as required by University College)	
6. Physical Education (as required for graduation)	2

*Prereq., high school Algebra and Plane Geometry.

7.	Natural Science -----	6-8
(One year in one field: Biology, Botany, Zoology, Chemistry, Physics, Geology)		
8.	Social Studies -----	9-12
	Hist. 101 or 102—History of the United States -----	3
	Economics, sociology, geography, government, or -----	3
	Social Science 9 or 10, or 209 or 210 -----	3
	Social Studies electives -----	3-6
9.	Speech I—Fundamentals of Speech -----	1
10.	Elective approved by the College of Education -----	2-3

Agriculture

Select 27 semester hours in agriculture

Agr. 1, 2—Introduction to Agriculture	6	Agr. 201-202—Farm Practices -----	6
Agr. 30—Forestry -----	3	Agr. 216—Crops and Soils -----	4
Agr. 102—Gardening -----	3	Agr. 217—Soil Conservation -----	3
Agr. 104—Fruit Production -----	3	Agr. 235—Farm Management -----	3
Agr. 121—Livestock Management -----	4	Agr. 320—Agr. Organizations -----	3

Bookkeeping — Basic Business

Acct. 75-76—Elementary Accounting	6	Mkt. 276—Selling and Sales Management -----	3
Acct. 125—Intermediate Accounting	3	or	
Bus. L. 255-256—Business Law -----	6	Mkt. 301—Retail Selling Policies -----	3
Ec. 11-12 or 101-102—Principles of Economics -----	6	Fin. 110—Money and Banking -----	3
Geog. 115—Economic Geography -----	3	Sec. St. 261—Teaching of Bus. Subjects -----	2-3
Sec. St. 180—Business Machines -----	2	Sec. St. 15, 16—Typewriting -----	4
Mkt. 155—Marketing Principles -----	3	Electives in business subjects -----	2

Business Education**(Comprehensive)**

Acct. 75-76—Elementary Accounting	6	Sec. St. 111—Advanced Typewriting	2
Advt. 155—Principles of Advertising	3	Sec. St. 151—Beginning Dictation and Transcription -----	3
Bus. L. 255—Business Law -----	3	Sec. St. 152—Advanced Dictation and Transcription -----	3
Ec. 11-12 or 101-102—Principles of Economics -----	6	Sec. St. 180—Business Machines -----	2
Fin. 110—Money and Banking -----	3	Sec. St. 181—Office Procedures and Services -----	3
Mkt. 155—Principles of Marketing -----	3	Sec. St. 220—Business Communications -----	3
Sec. St. 15—Beginning Typewriting -----	2	Sec. St. 275—Secretarial Practice -----	3
Sec. St. 16—Intermediate Typewriting -----	2	Sec. St. 261—Teaching of Business Subjects -----	3
Sec. St. 31—Beginning Shorthand -----	3	Sec. St. 330—Office Management -----	3
Sec. St. 32—Intermediate Shorthand -----	3		
Mgt. 211—Industrial -----	3		

English

Eng. 3, 4—English Composition -----	6	Eng. 311—History of the English Language or -----	
Eng. 101 or 102—English Literature and -----	6	Eng. 314—Structure of American English -----	3
Eng. 111 or 112—The Chief American Writers -----	6	Eng. 293—Advanced Composition -----	3
Eng. Approved electives (6 hrs. on 200 level and 9 hrs. on 300 level) -----	15	Additional electives suggested from the fields of library science, dramatic arts, speech correction, or journalism.	
Elective in library science -----	3		
Eng. 264—Teaching of High School English -----	3		

History and Government

Hist. 1 & 2, Western Civilization -----	6
Hist. 101 & 102, United States History -----	6
Hist. 115 or 120, Ancient or Medieval History -----	3
History electives, including two courses above 300 from two different fields -----	9
Govt. 1 or 2, American Government -----	3
Govt. 101 or 102, Comparative Government -----	3
Electives from the 300 level -----	3

Latin

Lat. 101—Latin Review and Reading	4	Lat. 331—The Life of the Romans	2
Lat. 102—Vergil -----	4	Lat. 333—Advanced Latin Syntax -----	2
Lat. 251—Familiar Essays -----	3	Lat. and Gk.—Approved elec.	10
Lat. 252—Horace and Terence -----	3		

For those entering with two years of Latin: Latin 101, 102, and 20 hours from the above.

Mathematics

Math. 15—Freshman Mathematics -----	5	Math. 301—Arithmetical and Algebraic Systems -----	3
Math. 16—Analytic Geometry and Calculus -----	5	Math. 268—Teaching of Mathematics in High School -----	3
Math. 101—Analytic Geometry and Calculus -----	4	Ed. 263—Teaching Arithmetic in the Upper Grades -----	2
Math. 102—Analytic Geometry and Calculus -----	4	Select from the following	3
Math. 207—Introduction to Mathematical Statistics -----	3	Astronomy 111 or 112, Elem. or Math. 104, Advanced Mathematics of Business	
Math. 209—College Geometry -----	3	C. E. 10, Plane Surveying	
		Math. 331, Theory of Statistics	

Modern Languages

Students who wish to major in one of the Modern Languages—French, German, Russian, or Spanish—should take one year of Beginning language, 18 hours at the 100 and 200 levels, including composition, grammar, and conversation, and at least six hours at the 300 level.

Students planning to do graduate work in any Romance Language are strongly urged to acquire a background of training in Latin.

Science — Comprehensive

Bot. 3, 4—General Botany -----	8	Earth Sciences (Astronomy 111, 112—Elementary Astronomy; Geology 3, 4—Elements of Geology) ---	9
Chem. 3, 4 & 99—General Chemistry and Qualitative Analysis -----	8		
Phys. 5, 6—Introduction to Physics or		Math. 3—College Algebra and Math. 14—Trigonometry or	
Phys. 113-114—General Physics -----	8	Math. 15—Freshman Mathematics ---5-6	
Zool. 3, 4—Principles of Zoology -----	7	(Biology majors may take Math. 9 and 10 instead of Math. 15.)	

Additional study in a specialty as follows:			
Chemistry -----	16	Biology: Botany or Zoology -----	14
Physics -----	16	and	
Earth Sciences (Geography and Geology) -----	16	Chemistry or Physics -----	4

Social Studies — Comprehensive

Hist. 1, 2—Western Civilization in Modern Times -----	6	Soc. Sc. 9, 10, 209, 210—Citizenship in the Modern World or	
Hist. 101, 102—History of the United States -----	6	Soc. 1—Introduction to Soc. -----	3
Hist. 115 or 120—Ancient or Medieval History -----	3	Ec. 11 or 101—Principles of Economics -----	3
Govt. 1 or 2—American Government ---	3	Geog. 150—Geography and Environment -----	3
Govt. 101 or 102—Comparative Govt. --	3	Electives in the above fields, including six hours in history and nine hours in two different fields, preferably on the 200 and 300 levels -----	15

In addition to the majors described above, a student in the College of Education may arrange another major when such arrangements meet his needs. The student will be expected to meet the professional and general requirements for certification, and qualify for certification in one or two teaching areas as described by the State Department of Education.

Art

Art 1-2—Drawing and Design -----	6	Art 123—Jewelry and Enameling -----	2
Art 101—Drawing and Design -----	3	Art. 128—Advanced Figure Drawing --	3
Art 21—Elementary Sculpture -----	2	Art 137—Fashion Design -----	2
Art 28—Figure Drawing -----	2	Art 205—Painting -----	2
Art 105—Painting -----	3	Art 240—Design Applied to Materials -----	2
Art 109—Printmaking -----	3	Art 260—Teaching Art -----	3
Art 115—Ceramics -----	2-3	Art 271—Interior Design -----	3
Art 131—Sculpture -----	2-3	Photog. 77—Basic Photography -----	2
Art 111—Drawing Workshop -----	2	Arch. 11—Introduction to Architecture or	
Art 113—Lettering -----	2	Arch. 375—Architecture in the United States -----	3
Art 218—Watercolor -----	3		
Art 120—Textile Design -----	3		
F. A. 121-122—History of Painting and Sculpture -----	6		

Home Economics

H. Ec. 1-2—Foods, Nutrition, and meal Planning (6)	H. Ec. 212—Flat Pattern Design
or	or
H. Ec. 12—Food Preparation and Meal Management (3) -----3-6	H. Ec. 316—Tailoring ----- 3
H. Ec. 3-4—Clothing Selection and Construction (4) -----3-4	H. Ec. 250—Seminar in Home Economics ----- 2
or	H. Ec. 268—Teaching of Home Economics ----- 2
H. Ec. 14—Theory and Construction of Clothing -----3-4	H. Ec. 325—Comparative Studies in Foods
H. Ec. 5—Infant and Child Development ----- 3	or
H. Ec. 7—The Home and Its Furnishings ----- 2	H. Ec. 327—Quantity Cookery ----- 3
H. Ec. 51—Orientation in Home Economics ----- 1	H. Ec. 330—Workshop in Home Furnishings ----- 3
H. Ec. 106—Family Living ----- 3	H. Ec. 331—Advanced Home Furnishings ----- 2
H. Ec. 108—Consumer Problems of the Family ----- 2	H. Ec. 334—Household Equipment ----- 3
H. Ec. 110—Textiles ----- 2	H. Ec. 351—Home Management ----- 2
H. Ec. 125—Family Nutrition ----- 2	H. Ec. 353—Home Management Laboratory ----- 3
H. Ec. 161—Home Nursing and Family Health ----- 2	H. Ec. 368—Demonstration Techniques ----- 2
H. Ec. 172—Advanced Child Development ----- 2	H. Ec. 370—Family Life Education ----- 3
	Electives in Liberal Arts ----- 4-7

Industrial Arts

Ind. A. 1, 2—General Woods ----- 6	Ind. A. 260—Teaching of Industrial Arts ----- 3
Ind. A. 9—Crafts ----- 2	Electives in Industrial Arts ----- 11
Ind. A. 13—General Cold Metals ----- 3	E. G. 1—Eng. Drawing ----- 2
Ind. A. 14—General Hot Metals ----- 3	E. G. 15—Industrial Arts Drawing ----- 2
Ind. A. 105—Materials of Industry ----- 3	Chem. 3-4—General Chemistry ----- 6
Ind. A. 116—Industrial Arts Design ----- 2	Chem. 99—Qualitative Analysis ----- 2
Ind. A. 131—Ceramics ----- 2	Physics 5, 6—Introduction to Physics ----- 8
Ind. A. 133—Electricity ----- 3	Ind. A. 309—Administration of Industrial Arts ----- 3
Ind. A. 134—Power and Transportation ----- 3	
Ind. A. 141—Graphic Arts ----- 3	

Music — General Supervision

Applied Music—16 hours:	
Voice (must include Voice 14) ----- 4	Mus. 233—Instrumentation ----- 3
Piano (must include Piano 6) ----- 4	Mus. 261—String Techniques and Materials ----- 2
Additional study in selected fields of applied music ----- 8	Mus. 263—Wind and Percussion Techniques and Materials (2 semesters, 2 hrs. each) ----- 4
Mus.—Chorus ----- 4	Mus. 265—Vocal Techniques and Materials ----- 2
Mus.—Participation elective (Chorus, Singers, Band, Orchestra) ----- 4	Mus. 266—Teaching of Music in the Elementary Grades ----- 3
Mus. 103-104—Dictation and Sight Singing ----- 4	Mus. 267—Supervision and Administration of Music in the Public Schools ----- 3
Mus. 105-106—Harmony ----- 6	Mus. 273—Conducting ----- 2
F. A. 123-124—History of Music ----- 6	
Mus. 201—Analysis and Form ----- 2	

Music — Instrumental Supervision

Applied Music—17 hours:	
Principal Emphasis ----- 8	F. A. 123-124—History of Music ----- 6
(Completion of Classif. 18)	Mus. 201—Analysis and Form ----- 2
Secondary Emphasis ----- 3	Mus. 233—Instrumentation ----- 3
(If Principal Emphasis is winds, 3 hrs. must be in strings; if Principal Emphasis is strings, 3 hrs. must be in winds.)	Mus. 261—String Techniques and Materials ----- 2
Piano (must include Classif. 4) ----- 4	Mus. 263—Wind and Percussion Techniques and Materials ----- 6
Voice ----- 2	(3 semesters, 2 hrs. a sem.)
Mus.—Band and/or Orchestra ----- 8	Mus. 265—Vocal Techniques and Materials ----- 2
Mus.—Chorus ----- 1	Mus. 266—Teaching of Music in Elementary Grades ----- 3
Mus. 3-4—Theory ----- 6	Mus. 267—Supervision and Administration of Music in the Public Schools ----- 3
Mus. 103-104—Dictation and Sight Singing ----- 4	Mus. 273—Conducting ----- 2
Mus. 105-106—Harmony ----- 6	

General Music Supervision
(Emphasis on Elementary School Music)

General Requirements		Requirements in Major
Psychology:		Applied Music—16 hours
1—General	3	Voice (must include Voice 14) ----- 4
71—Educational	3	Piano (must include Piano 6) ----- 4
Education:		Additional study in selected fields of applied music ----- 8
125—Purposes and Practices of Education	3	Chorus ----- 4
211—Child and the Curriculum or		Participation Elective (Chorus, Band, Orchestra) ----- 4
103—Studies of Children	3	Music: ----- 49
229—Curriculum and Teaching Practices	4	3-4—Theory ----- 6
Observation and Student Teach.:		103-104—Dictation and Sight
Ed. 272, 4 hrs., Ed. 281, 3 hrs.	7	Singing ----- 4
Art:		105-106—Harmony ----- 6
Electives	6	F. A. 123-124—History of Music ----- 6
English:		201—Analysis and Form ----- 2
3-4—Composition	6	233—Instrumentation ----- 3
101-102-111 or 112	3	261—String Tech. and Mat. ----- 2
Humanities:		263—Wind and Percussion Techniques and Materials ----- 2
(As required by University College and by certification regulations)		265—Vocal Techniques and Mat. ----- 2
Speech 1—Fundamentals	1	266—Teaching Music in Elem. Grades (2 semesters, 3 hrs. per semester) ----- 6
Physical Education	2	267—Music Supervision and Administration ----- 3
Mathematics:		268—General Music for Adolescents and Adults ----- 3
(As required by University College)		269—Social and Recreational Instruction ----- 2
Natural Science:		273—Conducting ----- 2
(One year in one field)	6	
Social Studies:		
History 101 or 102	3	
Economics, Geography, Government, Sociology, Social Science, 9, 10, 209, or 210	6	

Physical Education — Men

P. E. 61—Introduction	1	P. E. 269—Teaching of Health ----- 3
P. E. 165, 166—Program Skills	4	P. E. 304—History and Principles ----- 3
P. E. 102—Personal and Community Health	3	P. E. 306—Organization and Admin. ----- 3
P. E. 168—Football Skills	1	P. E. 395—School Health Problems (2) or
P. E. 221, 222—Program Skills	4	Psych. 131—Adjustment (3) or
P. E. 127—First Aid	2	Psych. 174—Psychology of Adolescence (2) or
P. E. 135—Program Techniques	1	P. E. 352—Physical Diagnosis (3) ----- 2-3
P. E. 150—Recreation	3	Zool. 3—Principles of Zoology ----- 4
P. E. 233—Theory of Adapted Activities	2	Zool. 133-134—Anatomy, Kinesiology, and Physiology ----- 7
P. E. 267—Athletic Coaching	4	
P. E. 268—Athletic Coaching	4	

Physical Education — Women

P. E. 1—Hockey, Soccer	1	P. E. 274, 275—Teaching of Rhythmic Act ----- 2
P. E. 4—Intermediate Swimming	1	P. E. 304—History and Principles ----- 3
P. E. 13—Mass Games	1	P. E. 306—Organization and Admin. ----- 3
P. E. 17—Tennis	1	P. E. 309—Tests and Measurements ----- 3
P. E. 7-8—Modern Dance	2	P. E. 395—School Health Problems (3) or
P. E. 102—Personal and Community Health	3	H. Ec. 161—Home Nursing and Family Health (2) or
P. E. 121, 122—Program Skills	4	Psych. 131—Adjustment (3) or
P. E. 127—First Aid	2	Psych. 174—Psychology of Adolescence (2) ----- 2-3
P. E. 150—Recreation	3	Zool. 3—Principles of Zoology ----- 4
P. E. 233—Theory of Adapted Activities	2	Zool. 133-134—Anatomy, Kinesiology, and Physiology ----- 7
P. E. 272, 273—Teaching Methods	4	
P. E. 269—Teaching of Health	3	

General Speech	
Speech 3—Public Speaking -----	2
Speech 7—Basic Speech Training -----	2
Speech 25—Principles of Argumentation -----	2
Speech 34—Oral Interpretation of Literature -----	3
Speech 104—Bases of Speech -----	3
Speech 112—Advanced Public Speaking -----	2
Speech 147—Workshop in Speech or Dram. A. 299—Principles of Acting -----	2-3
Speech 195—Principles of Speech Correction -----	3
Speech 260—Teaching of High School Dramatics and Speech -----	3
Speech and Hearing Therapy	
Psych. 131—Psychology of Adjustment -----	3
Psych. 174—Psychology of Adolescence -----	2
Psych. 375—Psychology of Exceptional Children -----	3
Ed. 103—Studies of Children or Psych. 173—Child Psychology -----	3
Speech 3—Public Speaking -----	2
Speech 7—Basic Speech Training -----	2
Speech 25—Principles of Argumentation or Speech 34—Oral Interpretation of Literature -----	2-3
Speech 104—Bases of Speech -----	3
Elective to be chosen from Dramatic Arts, Speech, or Radio-TV (with approval of adviser) -----	2-3
Speech 195—Principles of Speech Correction -----	3
Speech 305—Problem Solving Through Group Discussion -----	3
Speech 325—Direction of Forensic Programs -----	3
Dram. A. 10—Introduc. to Theatre -----	2
Dram. A. 21—Elements of Stage Scenery -----	3
Dram. A. 148—Costume and Makeup -----	2
Dram. A. 123—Elements of Stage Lighting -----	2
Dram. A. 250—Play Direction -----	3
Radio-TV 180—Radio Speech -----	2
Elective in public address (300 level courses) -----	3
Speech 262—Speech and Hearing Therapy in the Public Schools -----	2
Speech 307—Clinical methods -----	3
Speech 310—Speech Pathology -----	3
Speech 312—Phonetics -----	3
Speech 319—Audiometry and Speech and Hearing Problems -----	3
Speech 320—Advanced Clinical Methods -----	3
Speech 323—Lip Reading -----	3
Speech 335—Diagnostic Procedures -----	3
Speech 345—Stuttering and Psychogenic Disorders of Speech -----	3

All majors in Speech and Hearing Therapy are also required to demonstrate adequate mastery of basic voice and articulation skills in a speech proficiency test.

PREPARATION FOR PUPIL PERSONNEL, GUIDANCE, AND STUDENT PERSONNEL SERVICES

Pupil Personnel Service involves the work of the School Counselor, the School Psychologist, and the Visiting Teacher in elementary and secondary schools. In the state of Ohio, and many other states, professional workers in these fields must earn a state certificate. This requires teaching experience and graduate work beyond the bachelor's degree, including a master's degree.

Student Personnel Service involves the work of the college or university counselor, dean of students, housing director, admissions officer, and the like.

SCHOOL COUNSELOR. The certificated counselor in an elementary or secondary school must hold a master's degree in guidance and have three years of experience, one of which must be in teaching. Undergraduates interested in this field will prepare to be teachers and may also take the following courses: (Starred courses are especially recommended.)

- *Ed. 360—Guidance Principles (3) or
- *Ed. 367—Guidance in Elementary Schools (3)
- *Ed. 362—Information Service in Guidance (3)
- *Ed. 364—Counseling in Schools (3)
- *Ed. 385—Educational Measurements (3)

At least two courses must be taken from the following:

- Ed. 103—Studies of Children (3)
- Ed. 381—Educational Statistics (3)
- Psych. 131—Psychology of Adjustment (3)
- Psych. 174—Psychology of Adolescence (2)
- Psych. 261—Industrial Psychology (2)
- Psych. 375—Psychology of Exceptional Children (2)

Graduate students who desire preparation in this field will find programs described in the Graduate College Bulletin under EDUCATION. Detailed programs in guidance and in college student personnel work leading to the M.Ed. or Ph.D. degree may be secured from the office of the Guidance Training Laboratory, College of Education.

SCHOOL PSYCHOLOGIST. The certificated school psychologist must hold a teaching certificate and must hold a master's degree which includes not less than twenty-four hours of work distributed as follows: learning and human development (8), group measurement (2), statistics (2), individual measurement (8), counseling (2), and the role of psychologist in the school (2). Undergraduates interested in this field should prepare to teach and should consult an adviser in the Psychology or Education Department.

VISITING TEACHER. The certificated visiting teacher must have not less than one year of successful teaching experience and must have earned 20 hours of graduate credit in: child development and measurements, community organization, pupil personnel work and guidance, school administration, and orientation to social case work. Undergraduates interested in this field should prepare to teach and should consult the adviser in Social Work.

COLLEGE AND UNIVERSITY STUDENT PERSONNEL WORK

The master's degree is minimum preparation for such work. The doctorate is necessary for the more responsible positions. As an undergraduate the student interested in this field should develop considerable breadth in the social sciences, concentrating in the behavioral sciences. Undergraduate work in Human Relations and Psychology are especially desirable. A good background in the study of educational institutions and their role in modern societies is essential.

STUDENT TEACHING

Successful student teaching represents the culmination of the program of professional preparation; it is a requirement for the degree, Bachelor of Science in Education. No candidate will be considered for the degree, or for recommendation for a teaching certificate, who has not completed, under the supervision of Ohio University, at least seven hours of observation, participation, and student teaching.

APPLICATION: It is the responsibility of the student to enter an application for student teaching in the office of the Director of Student Teaching, not later than February 1 preceding the academic year in which he desires a student teaching assignment.

FACILITIES: Due to limited facilities available for student teaching in the city of Athens and a commuting radius of thirty miles, it is necessary for a large number of student teachers to be assigned to off-campus locations. Student teachers in elementary education are assigned to the public school systems of Cleveland, Marietta, and the cities where there are Ohio University Branches. Secondary education students are assigned in the Cleveland city schools. Students who are assigned in the local area are assigned to the University Elementary School, the Athens city elementary and high schools, and to the school systems of The Plains, Nelsonville, and Logan.

SCHEDULE: Students assigned to off-campus centers have the opportunity to experience the complete range of a teacher's activities in their full-time student teaching assignments. It is necessary for all students who pursue curricula leading to teacher certification to plan carefully during their first three years of college so that they may spend one complete semester off campus for student teaching. Student teachers should enroll in student teaching in either the second semester of the junior year or the first semester of the senior year. The limited number of student teaching applicants who can be assigned in the local area is restricted to half-day assignments. These students must have either a morning or an afternoon free in their schedule for student teaching.

PREREQUISITES FOR STUDENT TEACHING:

A. General Prerequisites

1. Residence: at least one semester of residence work must be completed prior to admission to student teaching.
2. Completion of at least 75 semester hours of course credit.
3. Scholastic Average: the student must have a point-hour ratio of 2.0 (C) on all hours attempted, and specifically a 2.0 on all hours taken at Ohio University.
4. English Proficiency: the student must have demonstrated proficiency in English usage. This requirement may be satisfied by earning "A" or "B" in English 4, or by passing the English proficiency test. (All transfer students must pass the English proficiency test regardless of the English grade transferred from another institution.)
5. Speech Proficiency: the student must have successfully passed a speech proficiency test given by the Speech Department. A card certifying that this test has been passed must be on file in the Office of the Director of Student Teaching.
6. Field Experience: All students in elementary education curricula must present evidence of an experience of ten consecutive school days duration taken during the open-

ing days of the public school in September, usually prior to the student's junior year. Students in secondary academic and special subjects should present evidence of an adequate background of Field Experience. This shall include either or both of the following types: (a.) An experience of ten consecutive school days duration in a secondary school during the opening days of school in the fall; (b.) Experience in working with children in informal situations such as camp counseling and playground supervision.

B. Special Prerequisites for Student Teaching in Elementary Education.

1. 2.0 (C) cumulative point-hour ratio on all courses completed in the following group, and specifically a 2.0 on the courses in this group taken at Ohio University: Ed. 102, Ed. 103, Ed. 165, Ed. 163, Ed. 169, Mus. 262, Art 160, P.E. 270, and Psych. 71.
2. A student who has more than one "D" in the courses, Ed. 103, Studies of Children, Ed. 163, Teaching of Reading and Language, Ed. 165, Teaching of Arithmetic, and Ed. 169 Teaching Social Studies and Science, will not be admitted to student teaching.

C. Special Prerequisites for Student Teaching in Secondary Academic and Special Subjects.

1. Completion of Psych. 71, Ed. 130 or Ed. 125, and Ed. 229.
2. A cumulative point-hour ratio of 2.0 (C) must be attained in all education courses attempted, and specifically a 2.0 on all courses taken at Ohio University. This includes Psych. 71, Ed. 125 or Ed. 130, Ed. 229, a teaching methods course, and any other courses offered in the Department of Education.
3. Completion of a major portion of the work in each of the teaching fields in which the student wishes to be certified. A cumulative point-hour ratio of 2.0 must be attained in each of these fields, and specifically a 2.0 on the courses taken at Ohio University in each field. This 2.0 requirement applies to each component part of the comprehensive majors.

THE UNIVERSITY ELEMENTARY SCHOOL

The College of Education of Ohio University maintains the University Elementary School, consisting of a four-year and a five-year kindergarten, and grades one through six. The first function of this school is to furnish the best possible learning environment and instruction for children, since this is essential if good laboratory experiences are to be made available to college students who are training for elementary teaching or supervision. Teachers in the University

Elementary School are members of the university staff with training in elementary education and supervision, and successful teaching experience.

CENTER FOR EDUCATIONAL RESEARCH AND SERVICE

The Center for Educational Research and Service is a division of the College of Education and is designed to make available the resources of the College of Education and of the University to educational workers — teachers, administrators, and supervisors. These services are also available to boards of education and to the public in communities served by Ohio University.

The Center's chief functions are: (1) to provide consultant services in such areas as curriculum planning, use of community resources, economic education, guidance programs, school-community relations, reading, testing, and supervisory and administrative problems (such consultative services may involve one or several staff members and may be a single meeting or a series of conferences and meetings); (2) to conduct school surveys of educational programs and curricula, school building and site needs, and organization of school districts; (3) to assist in the solution of professional problems through off-campus and on-campus workshops; (4) to promote conferences on vital problems confronting public education; (5) to publish those studies and reports which will aid in solving educational problems, and to distribute such publications; (6) to assist schools with the organization or revision of programs of reading (especially for exceptional children), guidance and testing; and (7) to encourage cooperative attack by teachers, administrators, boards of education, and the public toward solution of educational needs.

GRADUATE WORK IN EDUCATION

Graduate work at Ohio University is under the direction of the Graduate College and its Graduate Council, and is described in the Graduate College section of the catalog.

The College of Education offers many advanced graduate courses to help school workers raise the level of their competence in their professional work. Programs are available leading to the M.Ed. and Ph.D. degrees. It is also possible in certain fields to plan a sixth year of study or "Professional Competency Program." Detailed descriptions of these various graduate programs may be secured from the College of Education or the Graduate College.

The types of programs offered cover the following professional fields:

- Business Administration in Education
- Counselor Education in Higher Education
- Curriculum and Supervision
- Educational Administration
- Elementary Education
- Guidance and Counseling in Secondary Education
- Guidance in Elementary Education
- Student Personnel Services in Higher Education

In each of these fields, and to a limited extent in some other fields, the College of Education is prepared to advise students and to help them plan graduate programs most appropriate for their professional goals.

TEACHING CERTIFICATES

A student who plans to teach in Ohio makes application for a teaching certificate at the time of application for graduation. The teaching certificate is issued by the State Department of Education upon the recommendation of the Dean of the College of Education, and qualifies the student to teach the subjects indicated on the certificate.

Completion of requirements for graduation and of the professional courses required for certification does not insure that the individual will be recommended for certification. Instructors in various courses, and especially in courses in education and student teaching, will attempt to evaluate a student's fitness for the teaching profession in ways other than observation of academic performance in the classroom. Any reports of limitations which might tend to impair the individual's usefulness as a teacher in the public schools will be made a part of the student's record. When the student makes application for certification this record will be examined and the question of his fitness for teaching will be given further consideration.

Students who are not planning to teach in Ohio should inform themselves concerning the requirements specified by the department of education of the state in which they expect to teach.

A student who plans to teach in the elementary grades registers in the College of Education when he has completed the requirements of the University College. The curricula offered by the College of Education include the requirements of the State Department of Education and qualify a student to obtain a provisional certificate to teach in the elementary grades or the kindergarten-primary grades, depending upon the student's preparation.

Students who plan to teach high school academic or special subjects, ordinarily enroll in the College of Education. The curricula of the College of Education include the requirements of the State Department of Education and qualify the student to obtain a provisional certificate to teach the subjects indicated on the certificate. Students enrolled in other colleges of the University may meet certification requirements by completing the necessary professional and general education subjects, and completing requirements in the subjects which they plan to teach.

Students meet the minimum *professional* requirements for secondary certification to teach in Ohio by completing the following:

Subject	Sem. Hrs.
Psych. 71—Educational Psychology	3
Ed. 130—Secondary Education (or Ed. 125, Purposes and Practices of Education where appropriate)	3
Ed. 229—Curriculum and Teaching Practices	4
A methods course in major	2-3
Ed. 281—Student Teaching in the Secondary Schools	7-12

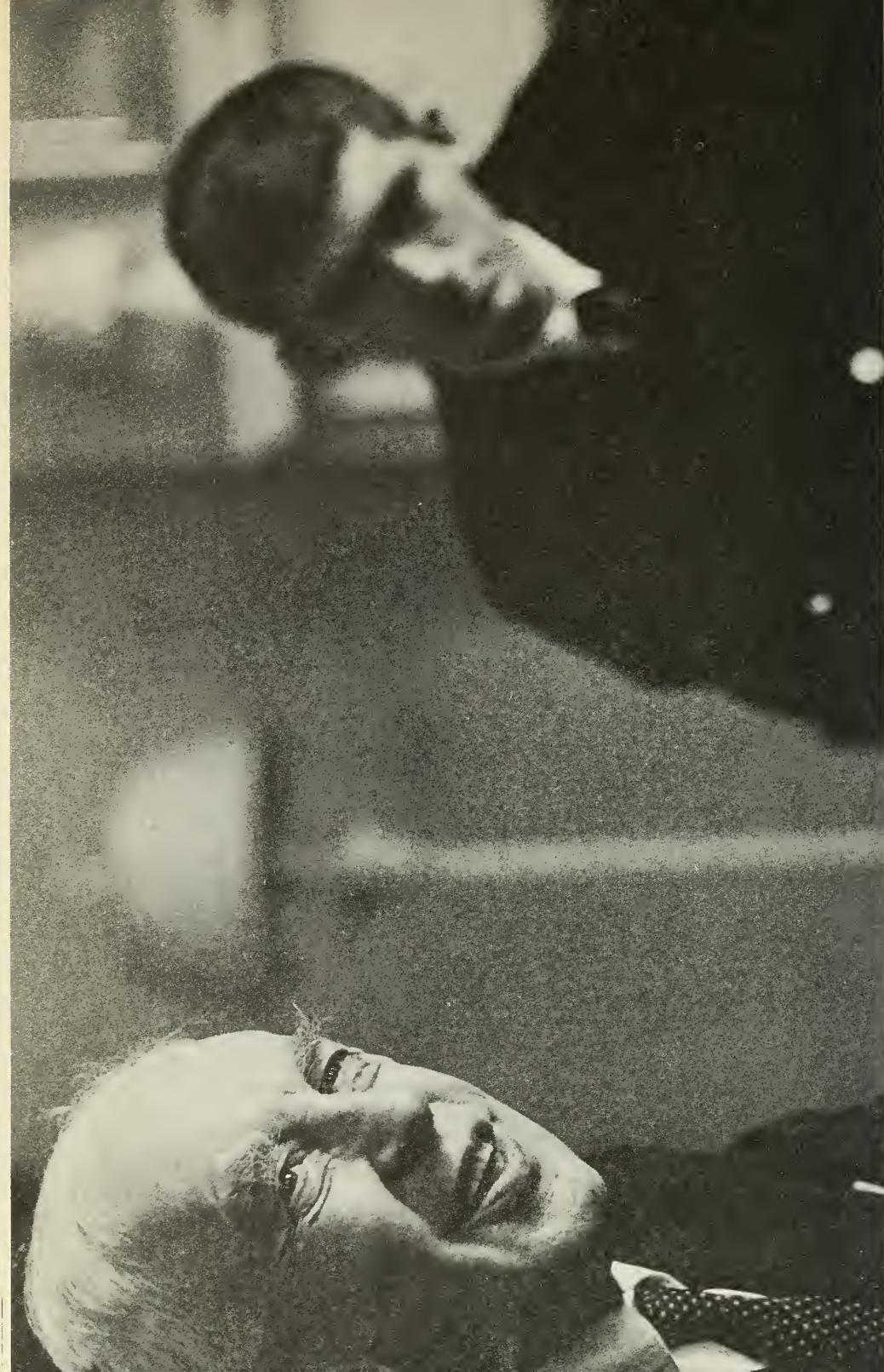
In addition, students must meet the following *general education* requirements for certification in Ohio, as set forth by the State Department of Education in *Laws and Regulations Governing the Certification of Teachers*, effective January 1, 1963:

General Education	-----	30
(a) Science and/or Mathematics	-----	6
(b) Social Studies	-----	6
(c) Literature and/or Language	-----	6
(d) Fine and/or Applied Arts	-----	6
(e) Religion and/or Philosophy	-----	6
Credit in either or both (d) and (e)	-----	6
(f) Excess credit in any or all areas above	-----	6

MINORS: A minor in Library Science for teachers may be secured by secondary teachers by completing 16 semester hours from the following:

Ed. 102—Lit. for Children	-----	3	Lib. Sc. 202—Books for High	-----	
Lib. Sc. 191—The Use of Library Resources	-----	3	School Readers	-----	3
Lib. Sc. 192—Classification and Cataloging of Books	-----	3	Lib. Sc. 291—The School Library	-----	3
Lib. Sc. 194—History of Books and Printing	-----	3	Lib. Sc. 392—Advanced Library Studies	-----	1-3
			Lib. Sc. 393—Practical Problems in School Library Service	-----	3

Minimum preparation for teaching certificates in Ohio, as defined by the State bulletin, may be considered as minor concentrations in certain other fields. For specific outlines of these minors, see the Office of the Dean, College of Education.



"Civilization on Trial" was discussed by Arnold Toynbee when he was on the Ohio campus.

THE COLLEGE OF ENGINEERING
AND TECHNOLOGY

E. J. TAYLOR, JR.,
DEAN
IRVIN P. BADGER
ASSISTANT DEAN

ENGINEERING

Chemical

Civil

Electrical

Engineering Graphics

Mechanical

(Industrial and Technical Options)

THE DEPARTMENT OF INDUSTRIAL ARTS

Industrial Arts

Industrial Technology

THE SCHOOL OF HOME ECONOMICS

The School is described in the next section

THE COLLEGE OF ENGINEERING AND TECHNOLOGY

DEGREES AND DEGREE REQUIREMENTS

The College of Engineering and Technology offers curricula leading to the Bachelor of Science degree in the fields of engineering, industrial technology, and home economics.

Candidates for degrees must fulfill the general graduation requirements of the University. Candidates for the degree in industrial technology must complete a minimum of 130 hours, plus any physical education in excess of 2 hours with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. This applies to the total record and to the major or equivalent. Candidates for degrees in engineering must complete a minimum of 140 semester hours plus satisfaction of physical education requirements with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. At least 18 semester hours of credit in humanities and social sciences is required for a degree in engineering, with at least 6 hours credit in each field. Courses taken in the humanities and the social sciences to satisfy high school deficiencies may not be counted toward the 18 hour requirement in the College of Engineering and Technology.

For a student with transferred credits, these rules apply to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

ENGINEERING

Engineering curricula accredited by the Engineers' Council for Professional Development are offered in Civil Engineering, Electrical Engineering, Mechanical Engineering (Industrial and Technical Options), and Chemical Engineering.

The majority of the engineering faculty members are registered professional engineers in the State of Ohio. New faculty members are urged to register in Ohio within a year after they have been appointed to the faculty.

If an engineering program is to be completed in four years the students must be well prepared, including four years of high school mathematics and good preparation in English. If a student has any deficiencies to make up, he would be well advised to recognize that to complete his program may require more than four academic years and plan accordingly. He may attend summer sessions or add one or more semesters to the time he plans to remain at the University. If he recognizes the situation early enough, he may profit considerably, since the extra time he will be at the University may enable him to take extra courses which will be of value to him. These courses might include ROTC, Business Administration courses, additional technical electives or general cultural courses.

With proper planning a student may obtain a degree from the College of Arts and Sciences, the College of Business Administration, or the College of Fine Arts as well as a Bachelor of Science degree

in an engineering field upon completion of ten semesters in the University. (See "Degree, Second Bachelor's.")

Since a background in English, the humanities, and the social sciences is essential for an engineer who hopes to advance in his profession, the faculty requires that all candidates for an engineering degree must have completed at least 18 hours of credit in the humanities-social sciences (including English courses numbered above 100). At least 6 hours credit in each field is required. The student is urged to plan in consultation with his adviser a program in these fields which will be most helpful to him. Engineers are frequently chosen for management; hence it is to the student's advantage to secure the broadest possible education.

ADMISSION TO AN ENGINEERING PROGRAM

High school students who wish to follow an engineering curriculum should plan to present for admission to the University those subjects which meet the area requirements of the University College, including the additional mathematics listed under "Subjects in High School" in the Admissions section of the catalog. High School students are warned that if they have not completed mathematics and other minimum entrance requirements, they should enter the University in June and take preparatory work during the summer session. This will prevent scheduling difficulties, and enable them to complete the program in the normal period. A student should indicate his choice of an engineering curriculum on his official application for admission to the University. This precaution will assure proper guidance in the University College program of study.

To be admitted to an engineering program from the University College, a student must at the time of admission to the engineering program have (1) satisfactorily completed Math. 16—Analytic Geometry and Calculus, (2) satisfied all University College requirements, and (3) have a cumulative point-hour ratio of at least 1.8.

Students who are not properly prepared in high school mathematics must enroll in preparatory mathematics courses. No mathematics course below Math. 16—Analytic Geometry and Calculus, or its equivalent, is counted toward satisfying the requirements for a degree in engineering.

A student whose point-hour ratio is less than 2.0 (C) for the second semester of the freshman year, or who receives a grade lower than "C" in the mathematics course taken during the second semester of the freshman year, is admitted to an engineering program on warning. Such a student remains on warning until the end of the first semester in which he achieves a cumulative point-hour ratio of 2.0.

Every engineering student should be prepared after completion of his four-year program to pass the examination given by the Board of Registration for Professional Engineers of the state in which he intends to practice. The Ohio Board allows those who have completed the standard four-year curriculum to appear for examination. It is to the student's advantage to take the examination as soon as possible after graduation.

REQUIREMENTS FOR CONTINUING IN AN ENGINEERING PROGRAM

A student who has been admitted to an engineering program with a cumulative point-hour ratio of less than 2.0 (C) must remove the grade-point deficiency by the end of the second semester in the engineering program. A grade-point deficiency in engineering subjects will not be permitted after two semesters in an engineering program. Failure to meet these requirements may result in a student being dropped from the engineering program by special action.

CURRICULA IN ENGINEERING

The faculty has established basic curricula in Civil Engineering, Chemical Engineering, Electrical Engineering, and Mechanical Engineering (Industrial and Technical Options).

University requirements pertaining to English Composition, physical education, the humanities, social sciences, and speech, which are outlined in the University College section of the catalog, are not repeated in the engineering curricula which follow.

HUMANITIES-SOCIAL SCIENCE ELECTIVES. The following subjects will meet the humanities and social science requirements.

Humanities Elective Group	Social Science Elective Group
English Courses numbered over 100	Courses in Economics
Courses in Fine Arts	Courses in Geography
Humanities 7, 8 or 107, 108—Great Books	Courses in Government
A foreign language	Courses in History
Courses in Philosophy	Social Science 9, 10 or 209, 210—Citizenship in the Modern World
Library Science 191	Psychology 1, 101, 261, 361
	Courses in Sociology
	Human Relations 303, 304—Human Relations

If a student desires to take other courses to satisfy the humanities and social science elective requirements, he must receive approval from his department chairman and the dean.

Freshman Program (for all engineers)

The University College Program should include:

Chem. 3—Gen. Chem. _____	4	Chem. 4, 99—Gen. Chem. and Qual. Anal. _____	4
Math. 16—Anal. Geom. & Calc. _____	5	Math. 101—Anal. Geom. & Calc. _____	4
Physical Education _____	1	Physical Education _____	1
University College Humanities and Social Science Requirements		University College Humanities and Social Science Requirements	

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Chemical engineers apply the principles of science, mathematics, and economics to the development, design, and operation of equipment and plants for the chemical industry. Accordingly, this program is planned so that its graduates are familiar with the techniques used

in analyzing and solving engineering problems associated with this, and related, industry (petroleum, metallurgical, plastics, etc.). In addition, the program provides an excellent background for graduate study in engineering, science, or business administration.

Initially, study in chemical, mathematics, physics, and communication skills is emphasized. Gradually, courses in engineering fundamentals are introduced, followed by intensive work in engineering analysis and design. In this latter phase, emphasis is placed upon the application of principles from many fields of study to the solving of engineering problems. Here, computer solutions, process control theory, economics, and similar topics, are stressed.

Electives permit the student to pursue his interest in humanities, social sciences, and technical areas as he plans for his future in research, design, production, management or technical sales.

CHEMICAL ENGINEERING

Freshman Program		Second Semester		Hours
First Semester				
Chem. 3—General	4	Chem. 4, 99—Gen. & Qual.	4	
E.G. 1—Engineering Drawing	2	E.G. 21 or E.G. 122	2	
Math. 16—Anal. Geom. & Calc.	5	Math. 101—Anal. Geom. & Calc.	4	
Eng. 3—Composition	3	Eng. 4—Composition	3	
Speech 1—Fundamentals	1	Phys. 113—General Physics*	4	
Physical Education	1	Physical Education	1	
Sophomore Program				
Chem. 201—Organic	3	Chem. 202—Organic	3	
Math. 102—Anal. Geom. & Calc.	4	Math. 215—Adv. Appl. Math.	3	
Phys. 114—General*	4	C.E. 120—Appl. Mechanics*	3	
Ch.E. 101—Intro. Chem. Proc.	3	Ch.E. 230—Prin. Engr. Materials*	3	
Hum. or Soc. Sci. Elective*	3-4	Chem. 109—Quant.*	4	
		Hum. or Soc. Sci. Elective*	3-4	
Junior Program				
Chem. 313—Physical	3	Chem. 314—Physical	3	
Chem. 117—Organic*	2	Chem. 315—Physical	2	
Ch.E. 201 Inter. Ch.E. Calc.	3	Ch.E. 220—Thermo. & Kin.	3	
Ch.E. 310—Unit Operations	3	Ch.E. 311—Unit Operations	4	
C.E. 222—Strength of Materials*	3	Ch.E. 320—Unit Proc.	3	
C.E. 223—Materials Test. Lab*	1	Eng. Lit.* or Hist. Elective**	3	
Eng. Lit.* or Hist. Elective**	3			
Senior Program				
Ch.E. 340—Design & Instr.	4	Ch.E. 341—Design & Instr.	3	
Ch.E. 312—Unit Op. Lab.	2	Ch.E. Electives*	4	
E.E. 201—Circ. & Meas.*	4	E.E. 209—Indust. Electronics*	3	
Phys. 115—Gen. Physics*	3	Ch.E. 380—Colloquium	1	
Hum. or Soc. Sci. Elective*	3	Hum. or Soc. Sci. Elective*	3	
Elective***	3	Elective***	3	

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

This curriculum is planned to give a broad understanding of Civil Engineering fundamentals. The program allows a limited number of elective hours of study. By a proper choice of these electives the student may extend his study in some specialized area of Civil Engineering, pursue further the business aspects of engineering, or broaden himself in a more general way by selection of courses in various divisions of the University.

*Courses may be taken at any time, provided prerequisites have been completed.

**Both English Lit. and History Electives must be taken — semester immaterial.

***Electives chosen, with consent of Adviser, in a specialized field — for example:

Engineering
Mathematics
Chemistry
Physics
Business Administration

Freshman Program

First Semester	Hours	Second Semester	Hours
Speech 1—Fundamentals	1	E.G. 21—Desc. Geometry	2
Chem. 3—General	4	Chem. 4, 99—Gen. Chem. and	
Math. 16—Anal. Geom. and Calc.	5	Qual. Anal.	4
Eng. 3—Composition	3	Math. 101—Anal. Geom. & Calc.	4
E.G. 1—Engineering Drawing	2	Eng. 4—Composition	3
Humanities or Social Science Elective	3	E.G. 2—Engineering Drawing	2
Physical Education	1	Humanities or Social Science Elective	3
		Physical Education	1

Sophomore Program

Ch.E. 230—Materials	3	C.E. 121—Applied Mechanics	3
C.E. 120—Applied Mechanics	3	Phys. 114—General Physics	4
Phys. 113—General Physics	4	Math. 215—Adv. Applied Math.	3
Math. 102—Anal. Geom. & Calc.	4	C.E. 224—Fluid Mechanics	3
C.E. 10—Plane Surveying or		C.E. 240—Hydraulics Lab.	1
Humanities or Social Science Elective	3	C.E. 10—Plane Surveying or	
		Humanities or Social Science Elective	3

Junior Program

Geol. 103—Engr. Geology	3	C.E. 228—Reinforced Concrete	3
C.E. 213—Advanced Surveying	3	C.E. 330—Structural Analysis II	3
C.E. 260—Route Engineering	2	C.E. 249—Water Supply	3
C.E. 222—Strength of Materials	3	C.E. 261—Transport Engineering	4
C.E. 223—Testing Lab.	1	M.E. 221—Thermodynamics	3
C.E. 230—Structural Analysis I	3	Humanities or Social Science Elective	3
C.E. 241—Hydrology	2		

Senior Program

C.E. 225—Soil Mechanics	3	Civil Engr. Elective	3
C.E. 231—Structural Design I	4	Electrical Engr. Elective	3
E.E. 201—Circuits and Measurements	4	Humanities or Social Science Elective	3
C.E. 250—Sewerage & Sewage		English Literature Elective	3
Treatment	3	C.E. 226—Foundation Engineering	2
C.E. 270—Engineering Economy	3	Elective	3

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

It is the aim of the department of Electrical Engineering to provide the background of general information and basic knowledge of principles which enable a student to analyze situations and to think intelligently and effectively in the field. The curriculum has grown out of the belief that these are the most essential foundation elements for the various specialized fields, as well as for early advancement in practical electrical engineering. A choice of electives provides for some specialization in the following areas: Electromagnetic phenomena over the entire spectrum, including microwaves and light frequencies; communications; energy generation and transmission; solid-state devices; automatic control systems; analog and digital computation; and courses in linear analysis and synthesis designed to lead into graduate work.

Freshman Program

First Semester	Hours	Second Semester	Hours
Chem. 3—General Chemistry*	4	Chem. 4, 99—General Chem.	
E.G. 1—Engineering Graphics	2	and Qual. Anal.	4
Eng. 3—Composition	3	E.G. 2—Engineering Graphics	2
Math. 16—Anal. Geom. and Calc.	5	Eng. 4—Composition	3
Speech 1—Fundamentals	1	Math. 101—Anal. Geom. and Calc.	4
Physical Education	1	E.G. 21—Desc. Geom.*	2
Ind. Arts—Shop Orient*	1	Physical Education	1

Sophomore Program

E.E. 103 or E.E. 101-102—Basic	5	E.E. 104—Basic	5
Phys. 113—General	4	Phys. 114—General	4
C.E. 120—Applied Mechanics*	3	C.E. 121—Mechanics*	3
Math. 102—Anal. Geom. and Calc.	4	Math. 215—Adv. Applied Math.	3
Humanities or Soc. Sci. Elective*	3	Humanities or Soc. Sci. Elective*	3

Junior Program

E.E. 234—Advanced Circuits	3	M.E. 221* or Phys. 310	3
E.E. 203—Energy Conversion	4	Math. 207 or E.E. 210	3
Math. 216—Elem. Complex Anal.	2	E.E. 204—Energy Conversion II	4
E.E. 207—Electronics	4	E.E. 208—Electronics	4
Humanities or Soc. Sci. Elective*	3	Phys. 115—General Physics	3

Senior Program

C.E. 222—Strength of Materials*	3	E.E. 302—Comm. Syst.	4
E.E. 335—E & M Fields	3	Humanities or Soc. Sci. Elective*	3
E.E. 301—Comm. Circuits	4	Technical Electives	10
Technical Elective	3		
Humanities or Soc. Sci. Elective*	3		

Technical Electives

E.E. 342—Symmet. Components	3	E.E. 331—Servomechanics	3
E.E. 321—Ultra HI Frequency	3	E.E. 351—Control Inst.	3
E.E. 310—Semiconductors	3	E.E. 322—Microwave	3
E.E. 371—Synthesis	3	E.E. 362—Digital Computer	1
E.E. 361—Analog. Computer	1	E.E. 330—Stat. Analysis	3
E.E. 261—Digital Computer	1	E.E. 336—Fields	3
E.E. 380—Solid State Devices I	3	E.E. 331—Solid State Devices II	3
E.E. 325—Acoustical Engr.	3	E.E. 343—Power Transmission	3
E.E. 332—Control Elec. Mach.	3	E.E. 333—System Analysis	3
E.E. 338—Plasma Dynamics I	3	E.E. 344—Elec. Design	3
E.E. 339—Plasma Dynamics II	3	E.E. 345—346—Adv. A.C. Mach.	3-3

*These courses may be taken at any available time, provided prerequisites have been completed.

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

The technical option in Mechanical Engineering emphasizes machine design and heat engineering. The work of the first two years is general and fundamental and parallels that in the other engineering curricula; that of the last two years is comprehensive, and includes courses in the theory, development, and design of machines and mechanical equipment, and in thermodynamics and its application to steam generators, steam engines and turbines, combustion engines, and refrigeration and air conditioning. To give a well-rounded curriculum, work is included in other fields of engineering, such as fluid mechanics and electrical engineering. Limited specialization is provided for by elective courses.

The industrial option provides the same kind of fundamental engineering background as the technical option, but, instead of focusing the early training on machine design and heat engineering, emphasizes training in fields leading to careers in industrial engineering and management.

TECHNICAL OPTION**Freshman Program**

First Semester	Hours	Second Semester	Hours
Chem. 3—General Chemistry	4	Chem. 4—General Chemistry	2
E.G. 1—Engineering Drawing	2	Chem. 99—Qual. Analysis	2
Eng. 3—Composition	3	E.G. 2—Engineering Drawing	2
Math. 16—Anal. Geom. & Calc.	5	E.G. 21—Desc. Geometry	2
Speech 1—Fundamentals	1	Eng. 4—Composition	3
Humanities or Soc. Sci. Elec.	3	Math. 101—Anal. Geom. & Calc.	4
		Humanities or Soc. Sci. Elec.	3

Sophomore Program

C.E. 120—Applied Mechanics	3	C.E. 121—Applied Mechanics	3
Ec. 101—Principles of	3	Ind. A. 17—Metalworking for	3
Math. 102—Anal. Geom. & Calc.	4	Engineers	3
M.E. 213—Metal Processing	2	Math. 215—Adv. Applied Math.	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
History Elective	3	Humanities or Soc. Sci. Elec.	3

Junior Program

C.E. 222—Strength of Materials	3	Ch.E. 211—Materials & Metallurgy	3
C.E. 223—Materials Testing Lab.	1	E.E. 202—Electrical Machinery	3
C.E. 224—Fluid Mechanics	3	M.E. 223—Thermodynamics II	3
E.E. 201—Circuits & Measurements	4	M.E. 224—Thermo. II Lab.	1
E.E. 261—Digital Comp. Seminar or E.E. 361—Seminar Anal. Comp. I	1	M.E. 302—Dynamics of Machinery	3
M.E. 201—Kinematics	3	Phys. 115—General Physics	3
M.E. 221—Thermodynamics I	3	Technical Elective	3
M.E. 222—Thermodynamics I Lab	1		

Senior Program

E.E. 209—Indust. Electronics	3	Engr. 380—Colloquium	1
M.E. 303—Machine Design I	3	M.E. 229—Heat-Power Laboratory	2
M.E. 394—Mechanical Vibrations	3	M.E. 304—Machine Design II	3
Thermodynamics Elective	3	Thermodynamics Elective	6
English Literature Elective	3	Technical Elective	3

TECHNICAL ELECTIVES

C.E. 326—Advanced Strength of Materials	3
C.E. 328—Theory of Elasticity	3
E.E. 331—Servomechanisms	3
Math. 207—Introduction to Mathematical Statistics	3
Math. 318—Digital Computer Programming	3
Math. 332—Theory of Statistics	3
M.E. 393—Lubrication & Friction	3
M.E. 384, 385—Problems in Thermal Machinery	4,4

THERMODYNAMICS ELECTIVES

M.E. 314—Heat Transfer	3
M.E. 323—Thermodynamic Analysis	3
M.E. 324—Gas Dynamics	3
M.E. 384, 385—Problems in Thermal Machinery	4,4
M.E. 395—Advanced Thermodynamics	3

INDUSTRIAL OPTION**Freshman Program**

First Semester	Hours	Second Semester	Hours
Chem. 3—General Chemistry	4	Chem. 4—General Chemistry	2
E.G. 1—Engineering Drawing	2	Chem. 99—Qualitative Analysis	2
Eng. 3—Composition	3	E.G. 2—Engineering Drawing	2
Math. 107—Anal. Geom. & Calc.	5	E.G. 21—Descriptive Geometry	2
Speech 1—Fundamentals	1	Eng. 4—Composition	3
Humanities or Soc. Sci. Elec.	3	Math. 101—Anal. Geom. & Calc.	4
		Humanities or Soc. Sci. Elec.	3

Sophomore Program

C.E. 120—Applied Mechanics	3	C.E. 121—Applied Mechanics	3
Ec. 101—Principles of	3	Mgt. 211—Industrial Management	3
Ind. A. 17—Metalworking for Engrs.	3	Math. 215—Advanced Applied Math.	3
Math. 102—Anal. Geom. & Calc.	4	Phys. 114—General Physics	4
Phys. 113—General Physics	4	M.E. 213—Metal Processing	3
		Humanities or Soc. Sci. Elec.	3

Junior Program

Ch.E. 211—Materials & Metallurgy	3	Acct. 111—Industrial Accounting	3
C.E. 222—Strength of Materials	3	E.E. 202—Electrical Machinery	3
C.E. 223—Materials Testing Lab.	1	M.E. 201—Kinematics	3
E.E. 201—Circuits & Measurements	4	M.E. 221—Thermodynamics I	3
Mgt. 321—Motion & Time Study	3	M.E. 231—Thermodynamics Lab.	1
History Elective	3	Phys. 115—General Physics	3
		Stat. 303—Quality Control	3

Senior Program

C.E. 270—Engineering Economy	3	Engr. 380 Colloquium	1
E.E. 209—Indust. Electronics	3	Mgt. 302—Production Management	3
M.E. 303—Machine Design I	3	M.E. 304—Machine Design II	3
M.E. 323—Thermodynamics Analysis	3	M.E. 370—Industrial Plant Design	3
Technical Elective	3	Industrial Elective	3
English Literature Elective	3	Technical Elective	3

TECHNICAL ELECTIVES

C.E. 224—Fluid Mechanics	3
E.E. 261—Digital Computer Seminar	1
E.E. 361—Seminar Anal. Computer	1
M.E. 223—Thermodynamics II	3
M.E. 227—Steam Power Plants	3
M.E. 302—Dynamics of Machinery	3
M.E. 393—Lubrication and Friction	3
M.E. 394—Mechanical Vibrations	3

INDUSTRIAL ELECTIVES

Mgt. 303—Production Control	3
Mgt. 325—Industrial Relations	3
Mgt. 332—Wage & Salary Administration	3
Stat. 310—Intermediate Statistics	3

BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY

The purpose of this curriculum is to develop prospective industrial employees who will have a general background of knowledge concerning the pattern of operation and common manufacturing processes of modern industry.

Some of the required courses are intended to develop understanding of the economic and legislative controls within which industry operates; others deal with problems of the worker in his relationships with labor groups and management; and laboratory courses give practice with tools and machines for the development of technical knowledge and skill related to manufacturing and production.

Freshman Program

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Eng. 3—Composition	3	Eng. 4—Composition	3
Hist. 1, 101, Govt. 1, 101 or Soc. Ec. 9	3	Hist. 2, 102, Govt. 2, 102 or Soc. Sc. 10	3
Chem. 3—General	4	Chem. 4 and 99	4
Speech 1—Fundamentals	1	Ind. A. 13—Gen. Cold Metals	3
Ind. A. 3—Wood Industry	3	E.G. 2—Engineering Drawing	2
E.G. 1—Engineering Drawing	2	Physical Education	1
Physical Education	1		

Sophomore Program

Ec. 11 or 101—Principles	3	Ec. 12 or 102—Principles	3
Math. 15—Freshman	5	E. G. 3—Slide Rule	1
Ind. A. 131—Ceramics	2	Psych. 1 or 101—General	3
Ind. A. 133—Electricity	3	Ind. A. 14—Gen. Hot Metals	3
Ind. A. 144—Graphic Arts Proc.	3	Ind. A. 134—Power & Trans.	3
		Ind. A. 203—Basic Electronics	3

Junior Program

Ind. A. 105—Mat. of Industry	3	Sec. St. 220—Business Commun.	3
Mgt. 211—Industrial	3	Mgt. 321—Motion & Time Study	3
Phys. 5 or 113	4	Phys. 6 or 114	4
Act. 111—Industrial	3	E. G. 115—Machine Drafting	3
Restricted Electives	4	Restricted Electives	3

Senior Program

Bus. Law 255	3	Mgt. 302—Production	3
Restricted Electives	9	Restricted Electives	9
Electives	4-5	Electives	4-5

STUDENTS WHO DESIRE TO TEACH INDUSTRIAL ARTS

Students who desire to teach Industrial Arts should enroll for the degree Bachelor of Science in Education. Requirements of the State Department of Education are listed under "Teaching Certificates" in the College of Education section of the catalog.

THE SCHOOL OF HOME ECONOMICS

VIVIAN M. ROBERTS

DIRECTOR

GENERAL HOME ECONOMICS

Workshops

Seminars

Field Work

CHILD DEVELOPMENT AND FAMILY LIFE EDUCATION

FOODS AND NUTRITION

HOME ECONOMICS EDUCATION AND EXTENSION

HOUSING AND HOME MANAGEMENT

FOOD SERVICE MANAGEMENT

TEXTILES AND CLOTHING

HOME ECONOMICS PROGRAMS FOR INTERNATIONAL
STUDENTS

THE SCHOOL OF HOME ECONOMICS

For over fifty years Ohio University has offered a program in Home Economics. During this time the increased opportunities for the trained home economist both in business and in professional work have been responsible for many changes in the curriculum. Today the School of Home Economics recognizes the importance of providing the student with a broad liberal education as well as professional competence in one or more areas of Home Economics.

Included in the School of Home Economics are the following departments:

Child Development and Family Life Education
Foods and Nutrition
Home Economics Education and Extension
Housing and Home Management
Food Service Management
Textiles and Clothing

Fundamental knowledge in areas related to Home Economics is provided through close cooperation with other colleges and departments of Ohio University. The Colleges of Arts and Sciences, Business Administration, Education, and Fine Arts all serve to enhance the background in areas related to the professional curricula in Home Economics.

The School of Home Economics offers eleven professional curricula leading to the Bachelor of Science in Home Economics degree. In addition, four curricula are offered for those following the two-year terminal program leading to the Associate in Arts degree. Graduate work leading to either the Master of Science or the Master of Education degrees is also offered (see Graduate College Bulletin).

The program in the School of Home Economics at Ohio University is both cultural and professional. It is built upon a three-phase plan including:

- (a) General education in communications, natural science, humanities, social science, and art,
- (b) Basic courses in all areas of Home Economics,
- (c) Professional courses in the major field and related areas.

The student has a wide choice in selecting a field of specialization. The following curricula all lead to the Bachelor of Science in Home Economics degree:

Professional

Foods and Nutrition (Dietetics)	Home Economics in Business:
Clothing and Textiles with Design	Journalism
Home Economics Education	Commercial Foods and Equipment
Home Economics Extension	
Child Development with Nursery Education	Fashion Merchandising
Research	Home Planning and Decoration
	Radio-Television

Non-Professional**Home and Family Living**

Career opportunities for the home economist in the business and the professional world are numerous. Hospitals, restaurants, hotels, and college residence halls are seeking the major in *Dietetics*. Public utility companies and manufacturers or retailers of food seek women trained in *Commercial Foods and Equipment* for promotional activities, writing publications, or experimental work with foods and equipment.

The girl interested in *Textiles* will find opportunities in textile testing or in developing promotional and educational programs for textile concerns. Clothing manufacturers, pattern companies, and clothing departments in retail stores seek the *Clothing* specialist for promotional work, designing garments, merchandising and buying, alterations, comparison shopping, or fashion coordination.

Home Economics Teachers, both vocational and nonvocational, are always in demand. The School of Home Economics is approved by the State of Ohio Department of Education for training vocational home economics teachers.

The broad program of *Home Economics Extension* in rural and urban areas of Ohio requires a large staff trained in extension for positions as home agent, extension specialist, or 4-H Club leader.

The home economist interested in *Child Development* will find opportunities in private or industrial nursery schools, or in welfare agencies caring for young children. By meeting the state requirements for certification, she may teach young children in public schools.

Newspapers, women's magazines, and radio and television companies seek the home economist with a flair for writing, speaking, or demonstrating, since she is trained to direct her program to the home-maker and consumer.

The *Home Planning and Decoration* specialist finds opportunities in gift and decorating establishments helping the consumer in the selection of furnishings for the home. Or she may become associated with magazine or advertising concerns writing articles or assisting with promotional programs.

SPECIAL FACILITIES. The program in home economics at Ohio University is not confined to the classroom and laboratories; other activities and experiences are encouraged. Nursery schools and home management houses are maintained by the department. Nearby high school home economics laboratories are available for student teaching. Off-campus activities have been developed with the Ohio State Extension Service, with the Health Department, with business organizations, with department stores, and with radio-television stations to give the student opportunities for field work in specialized areas. Affiliation with the Merrill-Palmer Institute in Detroit, Michigan, provides a unique experience for the junior or senior desiring a semester of specialized training in all areas related to marriage and the family.

CORE COURSES. The School of Home Economics offers a group of core courses that have no prerequisites, and are open to any student in the University. These courses are the basic courses taken by all students in home economics. However, they may be elected by students desiring basic training in the activities relating to the successful management of a home. Individual courses may be elected.

- H. Ec. 1-2—Foods, Nutrition and Meal Planning or
- H. Ec. 12—Food Preparation and Meal Management
- H. Ec. 3-4—Clothing Selection and Construction or
- H. Ec. 14—Theory and Construction of Clothing
- H. Ec. 5—Infant and Child Development
- H. Ec. 7—The Home and Its Furnishings
- H. Ec. 106—Family Living
- H. Ec. 108—Consumer Problems of the Family
- H. Ec. 110—Textiles
- H. Ec. 125—Family Nutrition
- H. Ec. 161—Home Nursing and Family Health

MINORS IN HOME ECONOMICS. Programs may be set up with some one phase of home economics as a minor field. For instance, students from any department in the University may elect a minor in any of the following fields:

Home and Family Living	Foods and Nutrition
Family Life Education	Textiles and Clothing
Child Development	Housing and Home Management
School Lunch and Food Service Management	

STUDENTS WHO DESIRE TO TEACH HOME ECONOMICS. Students in the School of Home Economics may obtain certification to teach by following the professional curriculum in Home Economics Education on page 163. Ohio University is one of the Centers approved by the Ohio State Department of Education for training Vocational Home Economics teachers, and all students who meet the requirement of this curriculum will be certified for teaching both Vocational and Non-Vocational Home Economics.

I. DEGREE REQUIREMENTS FOR ALL HOME ECONOMICS MAJORS

Candidates for the degree of *Bachelor of Science in Home Economics* must fulfill the general graduation requirements of the University, must complete a minimum of 124 hours, plus any physical education in excess of two hours. A point-hour ratio of 2.0 (C) is required on all hours attempted, but including only the final hours and grade points on repeated courses.

REQUIREMENTS IN LIBERAL ARTS. The School of Home Economics emphasizes a broad liberal education along with professional training. Basic courses in liberal arts required of all majors in home economics include:

	Hours
English 3-4—Composition -----	6
Speech 1—Fundamentals -----	1
Sociology 1—Introduction to Sociology, or 101—Principles -----	3
Psychology 1 or 101—General Psychology -----	3
Economics 11 or 101—Principles of Economics -----	3
Science (See Professional Curricula) -----	6-8
Humanities (See Professional Curricula) -----	6-8
Literature Elective -----	3
Art 191—Design and Composition (3) or Art 1-2—Drawing and Design (6) -----	3-6
Electives in liberal arts to total 48 hours.	

For specific requirements in science and humanities and for additional courses in natural science, humanities, social science, or communications, refer to the professional curriculum you are following.

REQUIREMENTS IN HOME ECONOMICS. All students in home economics are required to have basic courses in each area of home economics including:

	Hours
H. Ec. 51—Orientation in Home Economics -----	1
H. Ec. 1—Foods, Nutrition and Meal Planning or	
H. Ec. 12—Food Preparation and Meal Management -----	3
H. Ec. 3—Clothing Selection and Construction (2) or	
H. Ec. 14—Theory and Construction of Clothing (3) -----	2-3
H. Ec. 5—Infant and Child Development -----	3
H. Ec. 7—The Home and Its Furnishings -----	2
H. Ec. 106—Family Living -----	3
H. Ec. 108—Consumer Problems of the Family -----	2
H. Ec. 110—Textiles -----	2
H. Ec. 125—Family Nutrition -----	2
H. Ec. 351—Home Management -----	2
H. Ec. 353—Home Management Laboratory -----	3

REQUIREMENTS FOR PROFESSIONAL CURRICULA. At the end of the freshman year, each student selects a professional curriculum that she wishes to follow. If, however, she is not interested in a business or professional career, she may follow the non-professional curriculum with emphasis on home and family living.

II. PROFESSIONAL CURRICULA

Foods and Nutrition (Dietetics)

Home Economics Courses:

	Hours
H. Ec. 2—Foods, Nutrition and Meal Planning ----- (Except for those having H. Ec. 12)	3
H. Ec. 269—Teaching of Foods and Nutrition -----	3
H. Ec. 322—Experimental Cookery -----	3
H. Ec. 325—Comparative Studies in Foods -----	3
H. Ec. 326—Advanced Nutrition -----	3
H. Ec. 327—Quantity Cookery -----	3
H. Ec. 329—Nutrition in Disease -----	2
H. Ec. 342—Marketing and Food Cost Control -----	2
H. Ec. 343—Equipment and Furnishings -----	2
H. Ec. 348—Organization and Management -----	3

Related Courses:

Acct. 75—Elementary Accounting -----	3
Chem. 3-4—General Chemistry -----	6
Chem. 99—Qualitative Analysis -----	2
Chem. 113—Organic Chemistry -----	4
Chem. 117—Organic Chemistry Laboratory -----	2
Psych. 71—Educational Psychology -----	3
Psych. 261—Industrial Psychology -----	3
Zool. 134—Human Physiology -----	3
Zool. 241—Elementary Bacteriology -----	4
Zool. 309—Biological Chemistry -----	4

Child Development With Nursery Education

Home Economics Courses:

H. Ec. 2—Foods, Nutrition and Meal Planning (Except for those who have had H. Ec. 12)	3
H. Ec. 161—Home Nursing and Family Health	2
H. Ec. 172—Advanced Child Development	2
H. Ec. 370—Family Life Education	3
H. Ec. 375—Readings in Infant and Child Development	2-3
H. Ec. 376—Readings in Family Living	2-3
H. Ec. 377—Techniques with Young Children	3
H. Ec. 378—Administration of Group Care of Young Children	3
H. Ec. 379a and b—Guidance of Nursery School Children	6

Related Courses:

Science—Biology, Zoology, Physical World, or Chemistry	6-8
Zool. 241—Elementary Bacteriology	4
Psych. 71—Educational Psychology	3
Psych. 173—Child Psychology	3
Ed. 102—Literature for Children	3
Ed. 201—Materials and Methods in Kindergarten-Primary Education	2
Humanities—Language, Fine Arts, Philosophy, Literature	6-8
Mus. 72—Music Fundamentals	2
Soc. 110—Social Behavior	3
Soc. 233—Social Welfare	3
Soc. 234—Child Welfare	3

Minor Directed Toward Child Welfare:

This curriculum provides for a minor directed toward Child Welfare. Students in Child Development who want to meet state certification requirements for Kindergarten as well as training for Nursery School should see the chairman of the department who will waive some of the Child Development and Sociology requirements and make substitutions necessary for certification.

Fashion Merchandising

Home Economics Courses:

	Hours
H. Ec. 4—Clothing Selection and Construction (Except for those who have had H. Ec. 14)	2
H. Ec. 212—Flat Pattern Design	3
H. Ec. 313—Clothing and Textiles for the Consumer	2
H. Ec. 314—Fashion Merchandising	3
H. Ec. 315—History of Costume and Textiles	2
H. Ec. 316—Tailoring	3
H. Ec. 318—Advanced Textiles	3
H. Ec. 319—Advanced Studies in Textiles	3

Related Courses:

Advt. 155—Advertising Principles	3
Art 1-2—Drawing and Design	6
Art 28—Figure Drawing	2
Art 120—Textile Design	3
Art 137—Fashion Design and Illust.	2
Chem. 3-4—General Chemistry	6
Chem. 99—Qualitative Analysis	2
Ec. 12 or 102—Principles of Economics	3
Fine Arts 17-18—Introduction to the Fine Arts	6
Jour. 322—Feature and Magazine Writing	3
Mkt. 155—Marketing Principles	3
Six hours selected from the following:	
Acct. 75—Elementary Accounting	3
Mgt. 211—Industrial Management	3
Psych. 162—Psychology of Advertising and Selling	3
Sec. St. 220—Business Communications	3
H. Ec. 390d—Field Work in Merchandising	3-4

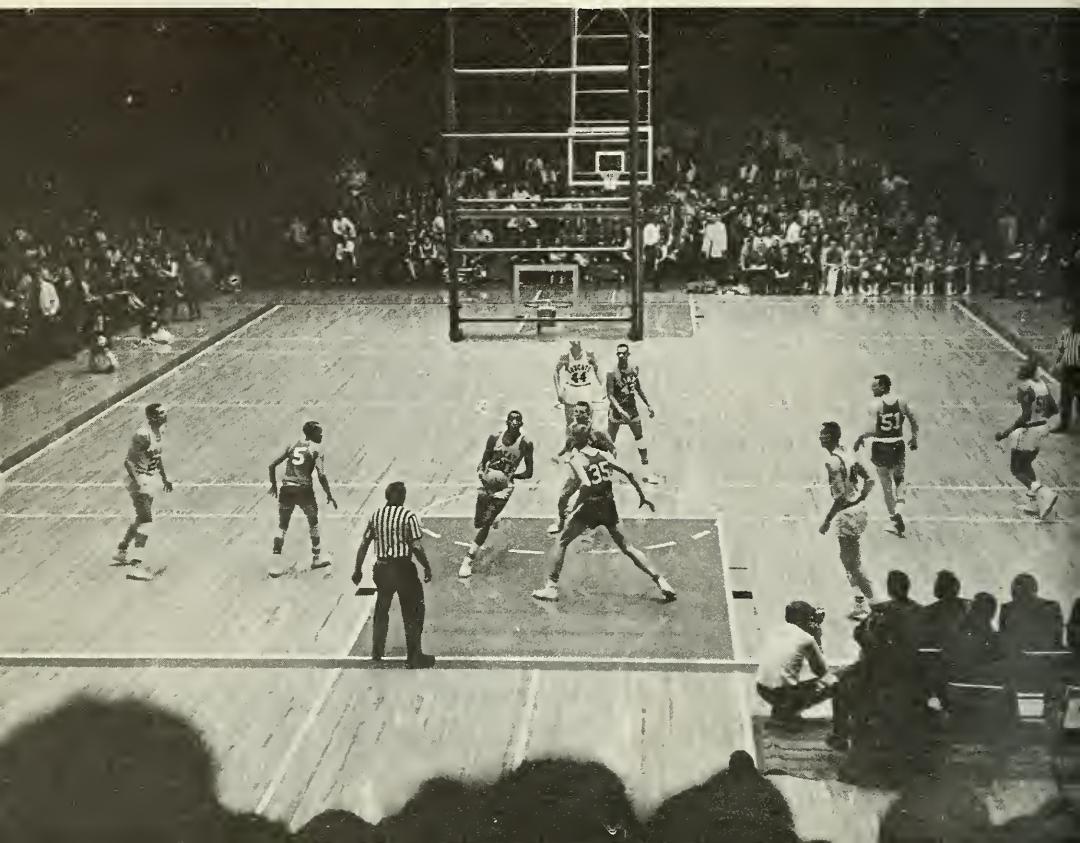
Electives in Liberal Arts-----6



Noted actresses, musicians and painters serve on the Fine Arts Visiting Committee. Jeanne Cagney of Beverly Hills, California, talks with Ohio students.

The Gallery is an important center in the new Space Arts Building.





Home Economics Education

Home Economics Courses:

H. Ec. 2—Foods, Nutrition and Meal Planning (Except for those who have had H. Ec. 12)	3
H. Ec. 4—Clothing Selection and Construction (Except for those who have had H. Ec. 14)	2
H. Ec. 161—Home Nursing and Family Health	2
H. Ec. 172—Advanced Child Development	2
H. Ec. 212—Flat Pattern Design or	
H. Ec. 316—Tailoring	3
H. Ec. 250—Seminar in Home Economics Education	2
H. Ec. 268—Teaching of Home Economics	2
H. Ec. 325—Comparative Studies in Foods or	
H. Ec. 327—Quantity Cookery	3
H. Ec. 330—Workshop in Home Furnishings	3
H. Ec. 331—Advanced Home Furnishings	2
H. Ec. 334—Household Equipment	3
H. Ec. 368—Demonstration Techniques	2
H. Ec. 370—Family Life Education	3

Related Courses:

Science—Biology, Chemistry, Physical World, or Zoology	6-8
Zool. 241—Elementary Bacteriology	4
Humanities—Philosophy or Fine Arts	6
Psych. 71—Educational Psychology	3
Ed. 130—Secondary Education	3
Ed. 229—Curriculum and Teaching Practices	4
Ed. 281—Student Teaching in Secondary Schools	7
Literature (electives)	6

Electives in Liberal Arts-----4-7

Home Economics Extension

Home Economics Courses:

	Hours
H. Ec. 2—Foods, Nutrition and Meal Planning (Except for those who have had H. Ec. 12)	3
H. Ec. 4—Clothing Selection and Construction (Except for those who have had H. Ec. 14)	2
H. Ec. 161—Home Nursing and Family Health	2
H. Ec. 172—Advanced Child Development	2
H. Ec. 212—Flat Pattern Design or	
H. Ec. 316—Tailoring	3
H. Ec. 250—Seminar in Home Economics Education	2
H. Ec. 266—Methods in Home Economics Extension	3
H. Ec. 268—Teaching of Home Economics	2
H. Ec. 325—Comparative Studies in Foods or	
H. Ec. 327—Quantity Cookery	3
H. Ec. 330—Workshop in Home Furnishings	3
H. Ec. 331—Advanced Home Furnishings	2
H. Ec. 334—Household Equipment	3
H. Ec. 368—Demonstration Techniques	2
H. Ec. 370—Family Life Education	3

Related Courses:

Science—Biology, Chemistry, Physical World, or Zoology	6-8
Zool. 241—Elementary Bacteriology	4
Humanities—Philosophy or Fine Arts	6
Psych. 71—Educational Psychology	3
Ed. 130—Secondary Education	3
Ed. 229—Curriculum and Teaching Practices	4
Ed. 281—Student Teaching in Secondary Schools	7
Literature (electives)	6

Electives in Liberal Arts-----4-7

Commercial Food and Equipment

Home Economics Courses:

	Hours
H. Ec. 2—Foods, Nutrition and Meal Planning (Except for those who have had H. Ec. 12)	3
H. Ec. 322—Experimental Cookery	3
H. Ec. 325—Comparative Studies in Foods	3
H. Ec. 326—Advanced Nutrition	3
H. Ec. 327—Quantity Cookery	3
H. Ec. 334—Household Equipment	3
H. Ec. 340—Problems in Foods and Nutrition	3
H. Ec. 368—Demonstration Techniques	2

Related Courses:

Advt. 155—Advertising Principles	3
Ec. 12 or 102—Principles of Economics	3
Chem. 3-4—General Chemistry	6
Chem. 99—Qualitative Analysis	2
Chem. 113—Organic Chemistry	4
Chem. 117—Organic Chemistry Laboratory	2
Mkt. 155—Marketing Principles	3
Jour. 322—Feature and Magazine Writing	3
Zool. 241—Elementary Bacteriology	4
Speech 3—Public Speaking	2

Six hours selected from the following:

Sec. St. 220—Business Communications	3
Mkt. 276—Selling and Sales Mgt.	3
Ec. 309—Public Utilities	2-3
Radio-TV 79—Introduction to Radio-TV	2
Jour. 247—Newspaper Advertising and Layout	3
Jour. 323—Advanced Feature and Magazine Writing	2
Psych. 162—Psychology of Advertising and Selling	3
Eng. 290—Creative Writing	3
Eng. 293—Advanced Composition	3
H. Ec. 390b—Home Service Work with Public Utilities	3-4

Home Planning and Decoration

Home Economics Courses:

	Hours
H. Ec. 330—Workshop in Home Furnishings	3
H. Ec. 331—Advanced Home Furnishings	2
H. Ec. 334—Household Equipment	3

Related Courses:

Art 1-2—Drawing and Design	6
Art 120—Textile Design	3
Art 271-272—Interior Design	6
Art 313—Advanced Interior Design	3
Ec. 12 or 102—Principles of Economics	3
Advt. 155—Advertising Principles	3
Fine Arts 17-18—Introduction to the Fine Arts	6
Mkt. 155—Marketing Principles	3
Science—Biology, Zoology, Physical World, or Chemistry	6-8

Six hours selected from the following:

F. A. 175—History of Architecture	3
Jour. 322—Feature and Magazine Writing	3
Mgt. 211—Industrial Management	3
Mkt. 276—Selling and Sales Management	3
Psych. 162—Psychology of Advertising and Selling	3
Sec. St. 220—Business Communications	3
H. Ec. 390d—Field Work in Retail Merchandising	3-4

Electives in Liberal Arts-----6-8

Textiles and Clothing With Design

Home Economics Courses:

	Hours
H. Ec. 4—Clothing Selection and Construction	2
(Except for those who have had H. Ec. 14)	
H. Ec. 212—Flat Pattern Design	3
H. Ec. 313—Clothing and Textiles for the Consumer	2
H. Ec. 314—Fashion Merchandising	3
H. Ec. 315—History of Costume and Textiles	2
H. Ec. 316—Tailoring	3
H. Ec. 318—Advanced Textiles	3
H. Ec. 319—Advanced Studies in Textiles	3

Related Courses:

Art 1-2—Drawing and Design	6
Art 28—Figure Drawing	4-6
Art 120—Textile Design	3
Art 137—Fashion Design and Illustration	2
Art 321—Advanced Fashion Design	2
Chem. 3-4—General Chemistry	6
Chem. 99—Qualitative Analysis	2
Fine Arts 17-18—Introduction to the Fine Arts	6

Six hours selected from the following:

Art 113-114—Lettering	2-3
Art 247-248—Advertising Design	6
Art 301—Individual Problems	1-3

Electives in Liberal Arts-----12

Home Economics With Journalism*

Home Economics Courses:

	Hours
H. Ec. 2—Foods, Nutrition and Meal Planning (Except for those who have had H. Ec. 12)	3
H. Ec. 4—Clothing Selection and Construction (Except for those who have had H. Ec. 14)	2
H. Ec. 161—Home Nursing and Family Health	2
H. Ec. 172—Advanced Child Development	2
H. Ec. 212—Flat Pattern Design or	2
H. Ec. 316—Tailoring	3
H. Ec. 325—Comparative Studies in Foods	3
H. Ec. 330—Workshop in Home Furnishings	3
H. Ec. 331—Advanced Home Furnishings	2
H. Ec. 334—Household Equipment	3
H. Ec. 368—Demonstration Techniques	2
E. Ec. 370—Family Life Education	3

Related Courses:

Humanities—Fine Arts, Language, Literature, Philosophy	6-8
Science—Biology, Chemistry, Physical World, or Zoology	6-8
Jour. 107—Newspaper Reporting	3
Jour. 146—Typography, Mechanics, and Make-up	3
Jour. 322—Feature and Magazine Writing	3

Eight to nine hours selected from the following:

Jour. 217—Newspaper and Magazine Editing	3
Jour. 247—Newspaper Advertising and Layout	3
Jour. 323—Advanced Feature and Magazine Writing	2
Jour. 375—Specialized Journalism	3
Jour. 327—Public Relations Techniques	3
Eng. 290—Creative Writing	3
Eng. 293—Advanced Composition	3

Electives in Liberal Arts-----10-18

*Students may combine Journalism with a special area of Home Economics. In such cases, Journalism courses may be substituted for the Business courses as listed under the Clothing and Textiles or the Commercial Food and Equipment curricula.

Home Economics With Radio-Television**

Home Economics Courses:

	Hours
H. Ec. 2—Foods, Nutrition and Meal Planning (Except for those who have had H. Ec. 12)	3
H. Ec. 4—Clothing Selection and Construction (Except for those who have had H. Ec. 14)	2
H. Ec. 161—Home Nursing and Family Health	2
H. Ec. 172—Advanced Child Development	2
H. Ec. 212—Flat Pattern Design or	2
H. Ec. 316—Tailoring	3
H. Ec. 325—Comparative Studies in Foods	3
H. Ec. 330—Workshop in Home Furnishings	3
H. Ec. 331—Advanced Home Furnishings	2
H. Ec. 334—Household Equipment	3
H. Ec. 368—Demonstration Techniques	2
H. Ec. 370—Family Life Education	3

Related Courses:

Humanities—Fine Arts, Language, Literature, Philosophy	6-8
Jour. 107—Newspaper Reporting	3
Science—Biology, Chemistry, Physical World, or Zoology	6-8
Zool. 241—Bacteriology	4
Speech 2—Voice and Articulation	2
Speech 34—Oral Interpretation of Literature	3
Radio-TV 79—Introduction to Radio-Television	2
Radio-TV 180—Radio Speech	2

Five to six hours selected from the following:

Radio-TV 225—Radio Production-Direction	-----	3
Radio-TV 247—Radio Workshop	-----	2-4
Radio-TV 316—Documentary and Continuity Writing	-----	3
Radio-TV 326—Advanced Radio Production-Direction	-----	3

Electives in Liberal Arts-----3-5

**Students may combine Radio-TV with a special area of Home Economics. In such cases, Radio-TV courses may be substituted for the Business courses as listed under the Clothing and Textiles or the Commercial Food and Equipment curricula.

III. NON-PROFESSIONAL CURRICULUM

Home and Family Living

Home Economics Courses:

	Hours
H. Ec. 2—Foods, Nutrition and Meal Planning (Except for those who have had H. Ec. 12)	3
H. Ec. 4—Clothing Selection and Construction (Except for those who have had H. Ec. 14)	2
H. Ec. 161—Home Nursing and Family Health	2
H. Ec. 172—Advanced Child Development	2
H. Ec. 212—Flat Pattern Design or H. Ec. 316—Tailoring	3
H. Ec. 325—Comparative Studies in Foods	3
H. Ec. 330—Workshop in Home Furnishings	3
H. Ec. 331—Advanced Home Furnishings	2
H. Ec. 334—Household Equipment	3
H. Ec. 370—Family Life Education	3

Related Courses:

Social Science Electives	9
Fin. 201—Personal Finance	2
Govt. 106—Current Political and Social Problems	2
Humanities—Philosophy, Fine Arts, or Foreign Language	6-8
Literature Electives	6
Science—Biology, Chemistry, Physical World, or Zoology	6-8
Zool. 241—Bacteriology	4

THE COLLEGE OF FINE ARTS
EARL C. SEIGFRED
DEAN

THE SCHOOL OF ARCHITECTURE

WALTER A. TAYLOR, DIRECTOR

Architecture

THE SCHOOL OF DRAMATIC ART AND SPEECH

CLAUDE E. KANTNER, DIRECTOR

Dramatic Art

Radio-Television

Public Address

Speech and Hearing Therapy

THE SCHOOL OF MUSIC

KARL AHRENDT, DIRECTOR

Applied Music

Music Education

Music History and Literature

Music Therapy

Theory and Composition

THE SCHOOL OF PAINTING AND ALLIED ARTS

FREDERICK D. LEACH, DIRECTOR

Art Education

Art History

Design

Painting and Drawing

Photography

Sculpture and Ceramics

THE COLLEGE OF FINE ARTS

The College of Fine Arts comprises the School of Architecture, the School of Dramatic Art and Speech, the School of Music, and the School of Painting and Allied Arts, offering a broad, cultural education in the fine arts and special training in the following departments: Architecture, Dramatic Production, Radio-Television, Public Address, Speech and Hearing Therapy, Applied Music, Music History and Literature, Music Theory and Composition, Music Education, Music Therapy, Design, Painting and Drawing, Photography, Art History and Appreciation, Sculpture and Ceramics, and Art Education.

The degree granted upon completion of the prescribed curriculum in the School of Architecture is the Bachelor of Architecture. The degree Bachelor of Fine Arts is granted upon completion of a program in the School of Dramatic Art and Speech, School of Music, or School of Painting and Allied Arts.

Candidates for degrees in the College of Fine Arts complete the general graduation requirements of the University. Candidates for the Bachelor of Fine Arts degree must complete a minimum of 124 semester hours, and for the Bachelor of Architecture degree a minimum of 165 semester hours, with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses, and in addition this same point-hour ratio on all hours in the field of specialization. For a student with transferred credit, this rule applies to his cumulative record, which includes transferred credits, and to his Ohio University record, exclusive of transferred credits. These requirements include the program of the University College.

BACHELOR OF ARCHITECTURE

MAJOR IN THE SCHOOL OF ARCHITECTURE. The School of Architecture offers one curriculum providing education and training for the professional practice of architecture. The School is a member of the Association of Collegiate Schools of Architecture and the curriculum conforms to the general requirements of the appropriate national accrediting board, in a minimum five year sequence. The curriculum provides training in the essential skills and professional competence supported by study of the liberal arts, social sciences and related fine arts.

At the end of the sophomore year the Dean of the College and the Faculty of the School of Architecture will select a limited number who will be admitted to the Upper Division (third, fourth, and fifth years) of the School of Architecture as candidates for the professional architectural degree.

The course of study in the Lower Division (freshman and sophomore years) serves also as a basis for the four-year professional curricula in other fields of design offered in the College of Fine Arts.

Students are urged to acquire practical experience in offices of architects or on construction projects during vacation periods before graduation.

The degree Bachelor of Architecture is the professional degree recognized by the state registration boards for admission to the licensing examinations after suitable experience in architects' offices for the period required by the state law. The course prepares the graduate to be gainfully employed as an architectural draftsman or assistant in this practical training period.

PROFESSIONAL CURRICULUM IN ARCHITECTURE

Lower Division

Freshman Program

First Semester	Hours	Second Semester	Hours
Eng. 3—Composition	3	Eng. 4—Composition	3
Math. 15—Freshman	5	Math. 16—Analytical Geom. & Calc.	5
F. A. 17—Intro. to Fine Arts	3	F. A. 18—Intro. to Fine Arts	3
Arch. 11—Intro. to Arch.	3	Arch. 12—Basic Design	4
Physical Education	1	Physical Education	1
Speech 1—Fundamentals	1		
	16		16

Sophomore Program

Eng. 101—English Lit.	3	Eng. 102—English Lit.	3
Phys. 5—Introduction	4	Arch. 181—Theory of Construction	2
Ec. 11—Principles	3	Ec. 12—Principles	3
Arch. 111—Basic Design	4	Arch. 112—Sophomore Design	5
F. A. 175—History of Arch.	3	F. A. 176—History of Arch.	3
	17		16

Upper Division

Junior Program

Fine Arts Minor	3	Fine Arts Minor	3
Social Science Minor	3	Arch. 256—Design	5
Arch. 255—Design	5	Social Science Minor	3
Arch. 279—Materials of Constr.	3	Arch. 283—Mechanical & Electrical	3
Arch. 281—Structural Design	3	Equipment of Bldgs.	3
	17	Arch. 282—Structural Design	3
	17		17

Senior Program

Social Science Minor	3	Earth Science	3
History of Architecture Option	3	F. A. 371—Latin Amer. Art &	3
Arch. 385—Design	5	History of Architecture Option	3
Arch. 284—Construction Drawing	3	Arch. 386—Design	5
Electives	3	Electives	6
	17		17

Fifth Year Program

Arch. 377—XIX & XX Century Arch.	2	Arch. 378—Phil. of Architecture	2
Arch. 311—City Planning	2	Arch. 312—City Planning	2
Arch. 395—Advanced Design	5	Arch. 396—B. Arch. Thesis	7
Bus. Law 342—Real Estate Law	3	Arch. 388—Professional Practice	3
Arch. 381—Advanced Structures	3	Electives	3
Electives	3		17
	18		

MINORS AND ELECTIVES. Courses for the Social Science minor must include Sociology, Psychology, Economics and Philosophy. Courses to be taken in the Physical Sciences depend upon high school credits and marks in Science. Courses for the Earth Science minor are selected from general courses in Geography, Geology and Climatology.

The Fine Arts minor is selected from the courses in the history of Theatre, Music, Oratory, or Painting and Sculpture.

HISTORY OF ARCHITECTURE OPTION

In addition to the required survey course, F.A. 175-176, History of Architecture, architecture majors are required to take two semesters (6 credit hours) selected from the following:

	Hours
Arch. 370—Civic Development	3
F. A. 371—Latin American Art	3
Arch. 375—Architecture in the U.S.	3
F. A. 477—The Baroque Spirit in Architecture	3

Faculty advisers assist in the selection of the Electives from lists of recommended elective courses.

BACHELOR OF FINE ARTS

The Bachelor of Fine Arts degree fulfills three functions: to provide the student with specialized training in one of the fine arts; to provide a cultural background through a study of the relationship of all of the arts; and to prepare the student, as far as possible, to become a responsible member of society. To these ends, the program has been kept flexible to meet individual needs. Every effort is made for educational and vocational counseling.

Students working toward the Bachelor of Fine Arts degree must complete a major in one of the schools of the College of Fine Arts and a minor of 18 hours in general courses in the fine arts, including F.A. 17-18—Introduction to the Fine Arts. In addition to this course, five others are offered from which the student must select two to complete the minor: History of Painting and Sculpture, History of Music, History or Architecture, History of the Visual Theatre, History of Oratory. Six hours of the minor must be in an area outside the School in which the student is pursuing his major. Descriptions of the general courses may be found under "Fine Arts."

As an alternate to the eighteen-hour minor in history and appreciation, it is possible in certain areas to fulfill the minor requirement by completing F.A. 17-18 and twelve semester hours of applied work in one of the schools of the College of Fine Arts other than that in which a major is being pursued. Before undertaking an alternate minor it is necessary to obtain written permission from the dean of the college.

Students majoring in Speech and Hearing Therapy may substitute a minor in Psychology for the usual minor.

Those who are planning to teach in Ohio should fulfill the minimum requirements for certification by completing the following:

	Hours		Hours
Psych. 71—Educational Psychology	3	A methods course	2-3
Ed. 125—Purposes and Practices of Education	3	Student teaching	7-12
Ed. 229—Curriculum and Teaching Practices	4		

In addition to the specified minimum requirements, students must complete six hours in social sciences and six hours in mathematics and/or science. Courses taken in the University College in these areas will count towards these requirements.

MAJORS IN THE SCHOOL OF DRAMATIC ART AND SPEECH. The curriculum of the School of Dramatic Art and Speech provides a general major for those who wish a broad background and also permits more specialized majors in theatre, oral communication in organizations, radio-television, and speech and hearing therapy for those who wish to concentrate their work in one of these areas. The requirements for these specialized majors are, however, based upon the principle that all majors should have certain basic courses designed to develop skill in speaking and provide a general background in the broad field of speech.

In addition, all majors are required to demonstrate adequate mastery of basic voice and articulation skills in a speech proficiency test. A satisfactory rating on this test is required for graduation.

The University College program should include Speech 1, Speech 7, and Fine Arts 17-18. Other courses available to students in the University College are: Speech 3, 25, and 34; Radio-TV 79 and 90, and Dramatic Art 10, and 21.

Majors in all areas must elect six hours of English beyond the University College requirement. Students who plan to teach speech and English in the public school should consult with their advisers concerning additional requirements in English, Education, and Psychology.

All majors, excepting those in Speech and Hearing Therapy, must complete a minor of 18 hours in general courses in the Fine Arts. This includes six hours in Fine Arts 17-18—Introduction to the Fine Arts, and six hours selected from Fine Arts 203-204—History of Oratory and Fine Arts 179-180—History of Visual Theatre. The remaining six hours are to be chosen from Fine Arts 121-122, 123-124, and 175-176. Majors in Speech and Hearing Therapy take Fine Arts 17-18 and complete a minor in Psychology in lieu of the usual minor in Fine Arts.

The School of Dramatic Art and Speech maintains a speech and hearing clinic which serves the needs of students, faculty, and the public. Consultations concerning all types of speech disorders may be arranged with the director of the clinic. Remedial training is provided without charge to regularly enrolled students under the direction of a competent speech pathologist. The Audiological Center is equipped and staffed to test all types of hearing disorders, give auditory training and fit and evaluate hearing aids. A special clinic for children serves the Athens area and provides excellent training opportunities for students in speech correction. Nominal fees are charged for the examination or treatment of non-students.

Practical experience in radio and television is provided in the University radio station, WOUB-AM and FM and in the closed circuit television laboratory as well as in the new television station, WOUB-TV. Students wishing to work in the theatre may take part in the productions of the University Theatre, the Playshop, the Ohio Valley Summer Theatre, and the Monomoy Summer Theatre on Cape Cod. Those interested in public address may participate in first-year debate, varsity debate, and inter-collegiate contests in oratory, extempore speaking and interpretation. The School of Dramatic Art and Speech also sponsors the following professional societies: Tau Kappa Alpha

(forensics), Footlighters and National Collegiate Players (theatre), Alpha Epsilon Rho and Collegiate Broadcasting Club (radio-television), and Sigma Alpha Eta (speech and hearing therapy). These activities and societies are described in the Student Activities section of the catalog.

MAJOR IN GENERAL SPEECH

	Hours			
Speech 3—Public Speaking	2	Speech 104—Bases of Speech	-----	3
Speech 7—Basic Speech Training	2	Speech 195—Principles of Speech	-----	3
Speech 25—Principles of Argumentation	2	Correction	-----	3
Speech 34—Oral Interpretation of Literature	3	Radio-TV 180—Radio Speech	-----	2
		Dram. A. 10—Introduction to Theatre	-----	2

Option 1. Without a Teaching Certificate

Students desiring a general speech major without a teaching certificate should, in addition to the basic courses listed above, complete 23 semester hours divided among Public Address, Theatre, and Radio-Television with a minimum of 6 hours in each area.

Option 2. With a Teaching Certificate

Students who plan to teach speech in the high school should consult with their advisers concerning the requirements for certification and preparation for teaching in a second subject matter area such as history, English, sociology, etc. In addition to the basic courses listed above, the following courses must be taken to complete the major in general speech:

	Hours			
Speech 112—Advanced Public Speaking	2	Dram. A. 123—Elements of Stage	-----	3
Speech 260—Teaching High School Dramatics and Speech	3	Lighting or elective in public address at 300 level	-----	3
Speech 305—Problem Solving Through Group Discussion	3	Dram. A. 148—Costume and Makeup	-----	2
Speech 325—Direction of Forensic Programs	3	Dram. A. 250—Play Direction	-----	3
Dram. A. 21—Elements of Stage Scenery	3	Dram. A. 299—Principles of Acting or Speech	-----	2-3
		147—Workshop in Speech	-----	2-3
		Radio-TV 360—Instructional Methods in Radio-TV	-----	3

MAJOR IN COMMUNICATION FOR ORGANIZATIONS

Courses in Speech:	Hours			
Speech 3—Public Speaking	2	Speech 342—Persuasion	-----	3
Speech 7—Basic Speech Training	2	Speech 344—Approaches to the Study of Communication	-----	3
Speech 25—Principles of Argumentation	2	Speech 366—Communication in Organizations	-----	3
Speech 104—Bases of Speech	3	Courses in Related Areas:		
Elective to be chosen from Speech 34, 195, 312 or Radio-TV 105, 180, 301 or Dram. A. 10, 105, 230, 231	2-3	Mgt. 211—Industrial Management	-----	3
Speech 110—Parliamentary Procedure	1	Psych. 131—Adjustment or 162—Advertising and Selling	-----	3
Speech 112—Advanced Public Speaking	2	Psych. 303—Learning or 310—Motivation and Emotions	-----	3
Speech 305—Problem-Solving Through Group Discussion	3	Psych. 306—Communication	-----	3
Speech 308—Psychology of Speech	3	Soc. St. 220—Business Communications	-----	3
Speech 340—Applications of General Semantics to Speech	3	Eng. 293—Advanced Composition	-----	3
		Soc. 229—Crowd and Mass Behav., or 336—Public Opinion and Mass Communications	-----	3

Note: Majors in Communication for Organizations should include F. A. 203-204—History of Oratory, as one of the minor courses.

MAJOR IN RADIO-TELEVISION

	Hours			
Speech 3—Public Speaking	2	Radio-TV 105—Radio-TV Broadcasting Mechanics	-----	2
Speech 7—Basic Speech Training	2	Radio-TV 180—Radio Speech	-----	2
Speech 34—Oral Interpretation of Literature	3	Radio-TV 225—Radio Production-Direction	-----	3
Speech 104—Bases of Speech	3	Radio-TV 301—Broadcasting and the Public	-----	3
Elective to be chosen from Dram. A. 10, 105, 230, 231 or Speech 25, 112, 147, 195, 305, 309, 312	2-3	Radio-TV 302—Principles of Television Production	-----	3
Radio-TV 79—Introduction to Radio-TV	2	Radio-TV 316—Documentary and Continuity Writing	-----	3
Radio-TV 90—Station Organization and Procedures	2	Radio-TV 375—Radio-Television Programming	-----	3

MAJOR IN THEATRE

	Hours	
Speech 3—Public Speaking	2	Dram. A. 123—Elements of Stage
Speech 7—Basic Speech Training	2	Lighting
Speech 34—Oral Interpretation of Literature	3	Dram. A. 148—Costume and Makeup
Speech 104—Bases of Speech	3	Dram. A. 207—Historic Costuming for the Stage
Elective to be chosen from Radio-TV 105, 180, 301 or Speech 25, 112, 147, 195, 309, 312	2-3	Dram. A. 250—Play Direction
Dram. A. 10—Introduction to Theatre	2	Dram. A. 299—Principles of Acting
Dram. A. 21—Elements of Stage Scenery	3	Electives in Dramatic Art courses at 300 level
Dram. A. 99—Movement and Pantomime	2	Electives in Dramatic Literature to be chosen from English or Dram. A. 230, 231

Note: Theatre majors should include F. A. 179-180—History of the Visual Theatre, as one of the minor subjects.

MAJOR IN SPEECH AND HEARING THERAPY

Students who anticipate obtaining positions as speech and hearing therapists in the public schools of Ohio must include in their program of study certain courses in general education, psychology, and education in order to qualify for a special certificate in this field. Those majors in speech and hearing therapy who are also completing these certification requirements may substitute a minor in Psychology for the minor in Fine Arts. The following curriculum contains all of the requirements (excepting certain University College requirements and approximately 15 hours of elective courses) for a Bachelor of Fine Arts degree with a major in speech and hearing therapy and a special certificate.

	Hours	
Speech 3—Public Speaking	2	Speech 195—Principles of Speech
Speech 7—Basic Speech Training	2	Correction
Speech 25—Principles of Argumentation or Speech 34—Oral Interpretation of Literature	2-3	Speech 307—Clinical Methods
Speech 104—Bases of Speech	3	Speech 310—Speech Pathology
Elective to be chosen from Speech 25, 34, 112, 147, 309, or Radio-TV 105, 180, 301 or Dram. A. 10, 105, 230, 231	2-3	Speech 312—Phonetics

Note: Neither Speech 25 nor Speech 34 may be counted as fulfilling more than one requirement.

General Education Courses (Required for certification):

Fine Arts 17-18—Introduction to Fine Arts	6	Psych. 131—Psychology of Adjustment	3
Science or Mathematics	6-8	Psych. 173—Child Psychology or Ed. 103—Studies of Children	3
(Zoology 3-4 recommended but optional)		Psych. 174—Psychology of Adolescence	2
English Literature	6	Psych. 375—Psychology of Exceptional Children	3
Social Studies (not including Psychology)	6	Education Courses (Required for certification):	
Electives in Fine Arts, English Literature, Science or mathematics, Social Studies, Language, Religion, or Philosophy	6	Ed. 125—Purposes and Practices of Education	3
Minor in Psychology (Required for certification):		Ed. 229—Curriculum and Teaching Practices	4
Psych. 1 or 101—General Psychology	3	Speech 262—Speech and Hearing Therapy in the Public Schools	2
Psych. 71—Educational Psychology	3	Ed. 272—Student Teaching in Speech and Hearing Therapy	5-10

A student who wishes to major in speech and hearing therapy without qualifying for certification should consult with his adviser concerning requirements.

MAJORS IN THE SCHOOL OF MUSIC. Ohio University is a member of the National Association of Schools of Music. The requirements for entrance and for graduation as set forth in this catalog are in accordance with the standards set up by the association.

The School of Music makes provisions for individual study in all branches of vocal and instrumental music and offers a wide range of courses in the fields of theory and composition, music history and literature, music education, and music therapy. Opportunities are provided for individual participation in student recitals, as well as for ensemble experience in groups such as the chorus, symphony orchestra, symphonic band, chamber music, and the glee clubs.

Six hours of English beyond the University College requirement, or Gen. Studies 7,8—Great Books, are to be taken by candidates for the degree of Bachelor of Fine Arts with a major in music. A required minor consists of 18 hours of general courses in the fine arts.

Students who desire to specialize in the field of music education are given the opportunity of preparing for the positions of special music teacher or music supervisor while working toward the degree of Bachelor of Fine Arts. In accordance with state requirements, the major may be vocal, instrumental, or teaching and supervision of elementary music.

Students in the College of Arts and Sciences may major in two areas—music history and literature or music theory. The director of the School of Music should be consulted as the adviser of the course.

Examinations in applied music are given at the end of each semester by a faculty committee in the applied music field concerned. The examinations must be taken by all music majors in those applied music courses which are required for the degree. It should be understood that completion of credit hours in applied music should be in agreement with the proficiency requirements as set up by the School of Music. These requirements may be secured at the office of the School of Music. Majors in applied music are required to present a junior and a senior recital.

Majors are required to attend all recitals and to participate in orchestra, chorus, or band, depending upon their applied major.

The following curricula have been set up for music majors in the College of Fine Arts.

MAJOR IN PIANO
(Four-Year Curriculum)

Twenty-six semester hours in applied music including 18 hours in piano, and 8 hours in ensemble (chorus, singers, orchestra, band, or chamber music).

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, 340, and one of the following: Mus. 313-314, 315-316, 317-318, or 319-320.

Freshman Program

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Freshman Piano	2	Freshman Piano	2
Mus. 3—Theory	3	Mus. 4—Theory	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Ensemble	1	Ensemble	1
University College requirements	7	University College requirements	8

Sophomore Program

Sophomore Piano	2	Sophomore Piano	2
Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony	3	Mus. 106—Harmony	3
English elective	3	English elective	3
Fine arts minor	3	Fine arts minor	3
Ensemble	1	Ensemble	1
Electives	3	Electives	2
	17		16

Senior Program

Organ	3	Organ	3
Mus. 367—Counterpoint	2	Mus. 368—Adv. Fugue	2
Mus. 381—Research	3	Mus. 381—Research	3
Ensemble	1	Ensemble	1
Mus. 315—Adv. Harmony (or Mus. 319)	2	Mus. 316—Adv. Harmony (or Mus. 320)	2
Electives	4	Electives	4
	15		15

Suggested electives:

French 1-2 or 101-102; German 1-2 or 101-102; Phil. 104; Phil. 107; Mus. 344; Mus. 374.

MAJOR IN VOICE

(Four-Year Curriculum)

Thirty semester hours in applied music, including 18 hours in voice, 4 hours of piano, and 8 hours in ensemble (chorus, singers).

Twenty-two semester hours in the theory and literature of music including Mus. 3-4, 103-104, 105-106, 201-202, and 337 or 339.

Freshman Program

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Freshman Voice	2	Freshman Voice	2
Mus. 3—Theory	3	Mus. 4—Theory	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Ensemble	1	Ensemble	1
University College requirements	7	University College requirements	8
	16		17

Sophomore Program

Sophomore Voice	2	Sophomore Voice	2
Secondary Piano	1	Secondary Piano	1
Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony	3	Mus. 106—Harmony	3
English elective	3	English elective	3
Fr. 1 or 101—Beginning or Intermediate French	4	Fr. 2 or 102—Beginning or Intermediate French	4
Ensemble	1	Ensemble	1
	16		16

Junior Program

Junior Voice	2	Junior Voice	2
Secondary Piano	1	Secondary Piano	1
Mus. 201—Analysis and Form	2	Mus. 202—Analysis and Form	2
F. A. 123—History of Music	3	F. A. 124—History of Music	3
Ger. 1 or 101—Beginning or Intermediate German	4	Ger. 2 or 102—Beginning or Intermediate German	4
Ensemble	1	Ensemble	1
Electives	4	Electives	3
	17		16

Senior Program

Senior Voice	3	Senior Voice	3
Fine arts minor	3	Mus. 337—The Literature of Vocal Music (2) or	
Ensemble	1	Mus. 339—The Evolution of the Opera (3)	2-3
Electives	8	Fine arts minor	3
	15	Ensemble	1
		Electives	6
			15-16

**MAJOR IN ORCHESTRAL INSTRUMENTS: STRINGS, WOODWINDS,
BRASS, OR PERCUSSION**

(Four-Year Curriculum)

Thirty semester hours in applied music, including 18 hours in major instrument, 4 hours in piano, and 8 hours of ensemble (orchestra, band, or chamber music).

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, 338, and one of the following: Mus. 313-314, 315-316, 317-318, or 319-320.

Freshman Program

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Major Instrument -----	2	Major Instrument -----	2
Mus. 3—Theory -----	3	Mus. 4—Theory -----	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Ensemble -----	1	Ensemble -----	1
University College requirements -----	7	University College requirements -----	8
	16		17

Sophomore Program

Major Instrument -----	2	Major Instrument -----	2
Secondary Piano -----	1	Secondary Piano -----	1
Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony -----	3	Mus. 106—Harmony -----	3
English elective -----	3	English elective -----	3
Fine arts minor -----	3	Fine arts minor -----	3
Ensemble -----	1	Ensemble -----	1
	15		15

Junior Program

Major Instrument -----	2	Major Instrument -----	2
Secondary Piano -----	1	Secondary Piano -----	1
Mus. 201—Analysis and Form -----	2	Mus. 202—Analysis and Form -----	2
F. A. 123—History of Music -----	3	F. A. 124—History of Music -----	3
Ensemble -----	1	Ensemble -----	1
Electives -----	8	Electives -----	7
	17		16

Senior Program

Major Instrument -----	3	Major Instrument -----	3
Advanced music theory elective -----	2	Advanced music theory elective -----	2
Ensemble -----	1	Mus. 338—The Literature of Orchestral Music -----	2
Electives -----	10	Ensemble -----	1
	16	Electives -----	8
			16

MAJOR IN MUSIC EDUCATION

(Four-Year Curriculum)

Sixteen semester hours in applied music, including completion of voice and piano requirements for vocal majors and required proficiency for the principal instrument for instrumental majors. Instrumental majors must also complete at least 3 hours in a secondary instrument (if principal instrument is wind, 3 hours must be in string, and vice versa). Instrumental majors must further complete piano proficiency and 2 hours of voice.

Twenty semester hours of theory, including Mus. 3-4, 103-104, 105-106, 201 and 233.

Eighteen semester hours, to constitute the minor, in courses in the fine arts, including F.A. 17-18, and F.A. 123-124.

Eighteen semester hours of music education to include Mus. 261, 263, 265, 266, 267, and 273.

Twenty-nine semester hours of general requirements, including 12 hours in English, Speech 1, two hours in physical education, 6 hours in social sciences, and 6 hours in mathematics and/or science, and other courses to fulfill the University College requirements.

Twenty hours in education for completion of certification requirements to include Psych. 1 and 71, Ed. 130 or 125, 229, 272, 281.

Eight hours of ensemble participation (band, chorus, singers, glee clubs, or orchestra).

A special program emphasizing the teaching and supervision of music in the elementary schools is also provided. Students desiring this program should consult the check sheet provided by the music education department.

Total requirements: 124-135 semester hours.

Freshman Program

The University College Program should include:

	First Semester	Hours	Second Semester	Hours
Eng. 3—English Composition	3	Eng. 4—English Composition	3	
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3	
Mus. 3—Theory	3	Mus. 4—Theory	3	
Psych. 1—General Psychology	3	Speech 1—Fundamentals of Speech	1	
P.E.—Physical Education	1	P.E.—Physical Education	1	
Applied	2	Applied	2	
Participation	1	Participation	1	
	16	Social Science	3	
				17

Sophomore Program

Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony	3	Mus. 106—Harmony	3
Eng. 102—English Literature	3	Ed. 130—Secondary Education	3
Psych. 71—Educational Psychology	3	Applied	2
Applied	2	Participation	1
Participation	1	Science/Math.	3
Science/Math.	3	Elective	3
	17		17

Junior Program

Mus. 261—String Techniques and Materials	2	Mus. 263—Wind and Percussion Techniques and Materials	2
Mus. 263—Wind and Percussion Techniques and Materials	2	Mus. 265—Vocal Techniques and Materials	2
Mus. 273—Conducting	2	Ed. 229—Curriculum and Teaching	4
F. A. 123—History of Music	3	F. A. 124—History of Music	3
Eng. 111 or 112—Chief Am. Writers	3	Applied	2
Applied	2	Participation	1
Participation	1	Mus. 266—Teaching Music in the Elementary Grades	3
	15		17

Senior Program

Mus. 233—Instrumentation	3	Ed. 272—Student Teaching in the Elementary Grades	3
Mus. 201—Analysis and Form	2	Ed. 281—Student Teaching in the Secondary Schools	4
Mus. 267—Music Supervision and Administration	3	Fine arts minor	3
Fine arts minor	3	Applied	2
Applied	2	Participation	1
Participation	1	Elective	3
Elective	3		16
	17		

MAJOR IN MUSIC THERAPY

(Four-Year Curriculum)

The Music Therapy curriculum is designed to meet requirements of both the College of Fine Arts and the National Association for Music Therapy. The fulfillment of the requirements prescribed by the Association permits the graduate to apply for listing with the Association as a registered music therapist.

The student is not limited to the subjects and hours listed below; however, this curriculum outlines the minimum requirements.

Total requirements: 138 semester hours to include credit for clinical experience.

Freshman Program

First Semester	Hours	Second Semester	Hours
English 3—English Composition	3	English 4—English Composition	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Biol. Sc. Elective	3	Biol. Sc. Elective	3
Psych. 1—General Psychology	3	Psych. 71—Educational Psychology	3
Piano	1	Piano	1
Ensemble	1	Ensemble	1
P. E. (Physical Education)	1	P. E. (Physical Education)	1
Voice	1	Voice	1
	16	Speech 1	1
			17

Sophomore Program

Mus. 3—Theory	3	Mus. 4—Theory	3
Mus. 261—String Techniques and Materials	2	Mus. 263—Wind and Percussion	2
Phys. Sc. Elective	3	Phys. Sc. Elective	3
Psych. 174—Psychology of Adolescence	2	Psych. 173—Child Psychology	3
English—Elective	3	or	
Piano	1	Psych. 375—Psychology of Exceptional Children	2
Ensemble	1	English—Elective	3
P. E. (Physical Education)	1	Piano	1
	16	Ensemble	1
		P. E. (Physical Education)	1
			16-17

Junior Program

Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony	3	Mus. 106—Harmony	3
Soc. 101—Principles of Sociology	3	Soc. 110—Social Behavior	3
F. A. 123—History of Music	3	F. A. 124—History of Music	3
Fine arts minor	3	Mus. 265—Vocal Techniques	2
Piano	1	Piano	1
Ensemble	1	Ensemble	1
	16		15

Senior Program

Mus. 313—Orchestration	2	Mus. 314—Orchestration	2
Mus. 374—Psych. Foundations of Music	3	Mus. 379—Music Therapy	2
Mus. 377—Background of Music Therapy	2	Mus. 263—Wind & Percussion	2
Psych. 332—Abnormal Psychology	3	Mus. 269—Social and Recreational Instruments and Materials	2
Mus. 263—Wind & Percussion	2	Soc. 260—Soc. of the Family	3
Mus. 268—General Music for Adolescents and Adults	3	or	
Piano	1	Soc. 322—Juvenile Delinquency	3
Ensemble	1	Fine arts minor	3
	17	Piano	1
		Organ	1
		Ensemble	1
			17

In addition to the above course work at Ohio University, the student must complete Music 274 and Music 380—Clinical Experience, to meet certification requirements as a music therapist.

MAJOR IN MUSIC THEORY OR COMPOSITION

(Four-Year Curriculum)

Twenty-four semester hours in applied music, including required proficiency in the principal instrument, and including 8 hours in ensemble (chorus, singers, orchestra, band, or chamber music). Piano proficiency is required if the principal instrument is not piano.

Forty to forty-four semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, 313-314, 315-316, 317-318, 319-320, 367-368, and 371-372. (Mus. 371-372 is required only of majors in composition.)

Freshman Program

The University College Program should include:

	First Semester	Hours		Second Semester	Hours
Applied			Applied		2
Mus. 3—Theory	2	3	Mus. 4—Theory	3	
F. A. 17—Introduction to the Fine Arts	3	3	F. A. 18—Introduction to the Fine Arts	3	
Ensemble	1	1	Ensemble	1	
University College requirements	7	8	University College requirements	8	
	16				17

Sophomore Program

	Applied	2	Applied	2	
Mus. 103—Dictation and Sight Singing	2	2	Mus. 104—Dictation and Sight Singing	2	
Mus. 105—Harmony	3	3	Mus. 106—Harmony	3	
Mus. 261—String Techniques and Materials	2	2	English elective	3	
English elective	3	3	Fine arts minor	3	
Fine arts minor	3	3	Ensemble	1	
Ensemble	1	1	Electives	2	
	16				16

Junior Program

	Applied	2	Applied	2	
Mus. 263—Wind and Percussion Techniques and Materials	2	2	Mus. 202—Analysis and Form	2	
Mus. 201—Analysis and Form	2	2	Mus. 316—Advanced Harmony	2	
Mus. 315—Advanced Harmony	2	2	Mus. 318—Counterpoint	2	
Mus. 317—Counterpoint	2	2	Mus. 320—Composition	2	
Mus. 319—Composition	2	2	F. A. 124—History of Music	3	
F. A. 123—History of Music	3	3	Ensemble	1	
Ensemble	1	1	Electives	3	
	16				17

Senior Program

	Applied	2	Applied	2	
Mus. 313—Orchestration	2	2	Mus. 314—Orchestration	2	
Mus. 367—Counterpoint	2	2	Mus. 368—Adv. Fugue	2	
Mus. 371—Composition*	2	2	Mus. 372—Composition*	2	
Ensemble	1	1	Ensemble	1	
Electives	6-8	6-8	Electives	6-8	
	15-17				15-17

*Required of majors in composition only.

MAJOR IN MUSIC LITERATURE

(Four-Year Curriculum)

Twenty-four semester hours in applied music, including required proficiency in principal instrument, and 8 hours ensemble (chorus, singers, orchestra, band, or chamber music). Piano proficiency is required if the principal instrument is not piano.

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, and 6 hours chosen from Mus. 337, 338, 339, and 340.

Freshman Program

The University College Program should include:

	First Semester	Hours		Second Semester	Hours
Applied		2	Applied		2
Mus. 3—Theory	3	3	Mus. 4—Theory	3	
F. A. 17—Introduction to the Fine Arts	3	3	F. A. 18—Introduction to the Fine Arts	3	
Ensemble	1	1	Ensemble	1	
University College requirements	7	8	University College requirements	8	
	16				17

Sophomore Program

Applied	2	Applied	2
Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony	3	Mus. 106—Harmony	3
English elective	3	English elective	3
Fine arts minor	3	Fine arts minor	3
Hist. 1—Western Civilization in Modern Times	3	Hist. 2—Western Civilization in Modern Times	3
Ensemble	1	Ensemble	1
	17		17

Junior Program

Applied	2	Applied	2
Mus. 201—Analysis and Form	2	Mus. 202—Analysis and Form	2
F. A. 123—History of Music	3	F. A. 124—History of Music	3
Fr. 1 or 101—Beginning or Intermediate French	4	Fr. 2 or 102—Beginning or Intermediate French	4
Ensemble	1	Ensemble	1
Electives	4	Electives	3
	16		15

Senior Program

Applied	2	Applied	2
Music literature elective	4	Music literature elective	2
Ger. 1 or 101—Beginning or Intermediate German	4	Ger. 2 or 102—Beginning or Intermediate German	4
Ensemble	1	Ensemble	1
Electives	4	Electives	6
	15		15

MAJORS IN THE SCHOOL OF PAINTING AND ALLIED ARTS. The basic program in Drawing and Design is organized to familiarize students with various media and the techniques involved as well as with the need for developing, and imposing, a self-determined discipline toward the production of an aesthetic form. During the sophomore year, each student will have become familiar with fundamental problems involving the production of a meaningful form; he will also have completed a survey of the history of the fine arts. At this time he will, together with his adviser, determine for himself the course of study he will follow for the remaining two years. Thus the freshman and sophomore years constitute an extensive program and the junior and senior years a more intensive plan. This division of the undergraduate degree program is based on the belief that the students, having been well grounded during the first two years of their college careers, are sufficiently mature to help direct their courses of study through their own areas of specialization.

The Bachelor of Fine Arts degree in the School of Painting and Allied Arts requires a minimum of 34 semester hours of work in the School, including three semesters of Drawing and Design (Art 1-2, 101), selected courses from Art 105, 109a, b, 115 and 131, and one semester each of Art 21 and 28. Art 111, 113, and 128 are normally required during the sophomore year. The minor requirement for the B.F.A. degree is met with 18 semester hours of general courses in the fine arts.

Six hours of English beyond the University College requirement, or Gen. Studies 7, 8, Great Books, are to be completed by candidates for the B.F.A. degree.

Those students desiring mastery of the field of Painting, Sculpture, Printmaking, or Ceramics, will find little difficulty in planning a program in accordance with their personal objectives as they relate to

the demands of the field involved. Other fields of specialization would include the general field of design or concentration in Advertising Design, Fashion Design, Industrial Design, or Interior Design. Programs leading to the realization of competence in all areas can be arranged to suit the individual needs of the student in conference with his adviser. Students majoring in one of the applied design fields should be advised by an instructor in that area.

MAJOR IN ART

Freshman Program

First Semester	Hours	Second Semester	Hours
Art 1—Drawing and Design	3	Art 2—Drawing and Design	3
Art 21—Elementary Sculpture*	2	Art 28—Figure Drawing*	2
F.A. 17—Introduction to the F. A.	3	F.A. 18—Introduction to the F.A.	3
University College requirements	8	University College requirements	8
	16		16

Sophomore Program

Art 101—Drawing and Design	3	F.A. 122—Hist. of Ptg. & Sculp.	3
F.A. 121—Hist of Ptg. and Sculp.	3	English	3
English	3	Major Area	7-9
Major Area	4-6	Electives	2-4
Electives	2-4		15-17

Junior Program

F.A. unspecified	3	F.A. unspecified	3
Major Area	8-10	Major Area	8-10
Electives	2-4	Electives	2-4
	15-17		15-17

Senior Program

Major Area	8-10	Major Area	8-10
Electives	5-9	Electives	5-9
	15-17		15-17

MAJORS IN ADVERTISING DESIGN:

Junior Program

First Semester		Second Semester	
Fine Arts Elective	3	Fine Arts Elective	3
Art 247	3	Art 248	3
Art 128	3	Art 205 or Art 209	3
Art 205 or 209	3	Jour. 247	3
Electives		Jour. 348	3
		Electives	3

Senior Program

Art 317	3	Art 318	3
Art 328	3	Art 328	3
Art 365	3	Art 365	3
Advt. 332	3	Electives	3
Electives			

Electives recommended: Jour. 376, 309, 146
 Art 115, 131, 351, 305, 309
 Psych. 135
 Photog. 133, 77
 Advt. 376
 Mktg. 311

MAJORS IN INTERIOR DESIGN:

Junior Program

First Semester		Second Semester	
Art 271	3	Art 272	3
F.A. 175	3	F.A. 176	3
Art 313d	2	Art 240b	2
Art 120	3	Art 318a	3
Art 301a	3	Art 301c	2
Electives	3	Electives	

Senior Program

Art 313b	3	Art 313c	3
Art 301b	3	Art 301d	3
Art 381	2	Art 381	3
Electives		Electives	3

Recommended electives, Photography 77 and 78, Weaving 130

MAJOR IN INTERIOR DESIGN. Candidates for the Bachelor of Fine Arts degree who wish to specialize in interior design should follow the basic program for art majors with the exception that Architecture 55 and 56 must be taken in the sophomore year.

Art 301, Individual Problems, has been utilized to provide the interior major with additional coverage as indicated.

MAJORS IN INDUSTRIAL DESIGN:**Junior Program**

First Semester		Second Semester	
F.A. Elective	3	F.A. Elective	3
Art 351*	3	Art 352*	3
Art 301	2	Art 301	2
Art 240b	2	Photog. 77 or 133	3
Art 247	3	Art 240b	2
Engineering Drawing 1	2	Art 231	3
Electives**		Electives	3

Senior Program

Art 351*	3	Art 352*	3
Art 301	2	Art 301	2
Art 381	2	Art 381	2
Art 271	3	Electives	
Electives			

*Art 351 and 352 are combined with 2 hrs. of 301 each semester of the Jr. and Sr. years to achieve a 5 hr. course.

**Electives should include Soc., Psy., Econ., Marketing, and Phil.

MAJOR IN ART EDUCATION

The program below is designed for those who wish certification as teachers in the public schools while completing requirements for the Bachelor of Fine Arts degree. All required courses are specified and should be taken as listed. Substitution may be made only after consultation with an adviser.

Freshman Program

First Semester	Hours	Second Semester	Hours
Art 1—Drawing & Design	3	Art 2—Drawing & Design	3
Art 28—Figure Drawing*	2	Art 21—Elementary Sculp.	2
F.A. 17—Intro. to F.A.	3	F.A. 18—Intro. to F.A.	3
Psych. 1—General Psychology	3	Hist. 1—Western Civilization	3
English 3	3	English 4	3
Physical Education	1	Physical Education	1
	15	Speech 1	1
			16

Sophomore Program

Art 101—Drawing & Design	3	Art 105—Painting	3
Art 113—Lettering	2	Art 123—Jewelry	2
F.A. 121 Hist. of Ptg. & Sculp.	3	F.A. 122—Hist. of Ptg. & Sculp.	3
Psych. 71—Ed. Psych.	3	Art 28—Figure Drawing	2
Eng. 101—Eng. Lit.	3	Eng. 102—Eng. Lit.	3
Hist. 101—U.S. to 1865	3	Ed. 125—Purp. & Prac. of Educ.	3

Junior Program

Ed. 229—Curric. & Teach. Prac.	4	Art 218—Watercolor	3
Art 240—Design App. to Mat.	3	Art 109 a or b—Prints	3
F.A. Minor	3	F.A. Minor	3
Science	3	Art 260—Teach. of Art	3
Elective	3	Science	3
		Elective	2
	16		
			17

Senior Program

Ed. 272—Stud. Teach., Elem.	3	Art 115—Ceramics	3
Ed. 281—Stud. Teach., Sec.	4	Art 120—Textiles	3
Art 205—Painting	3	Electives	9-11**
Art 111—Drawing Workshop	2		
Ed. 277—Field Exp.	2		15-17
	14		

*May be taken either semester.

**May be utilized earlier at advisor's discretion.

MAJOR IN PHOTOGRAPHY

Candidates for the Bachelor of Fine Arts degree electing photography as a field of concentration follow the regular sequence of photography courses during their freshman and sophomore years with advanced study in commercial and illustrative photography and portraiture.

In addition to a specialized understanding of photographic techniques and practices, a general education in contributing fields is desirable. The successful photographer must appreciate the ideas and interests of those with whom he deals.

A planned course of study should include courses in art history, design, and drawing for technical information contributing directly to the major interest. From the general educational field, courses in business administration, journalism, and the sciences should be chosen to fit individual needs.

Prospective photography majors should contact a staff member before registration and follow the program outline as closely as possible.

Freshman Program

First Semester	Hours	Second Semester	Hours
Art. 1—Drawing & Design	3	Art 2—Drawing & Design	3
Photog. 77—Basic	3	Photog. 78—Basic	3
F.A. 17—Introd. to F.A.	3	F.A. 18—Introd. to F.A.	3
University College requirements	7	University College requirements	7
	16		16

Sophomore Program

Photog. 143—Processes	3	Photog. 144—Processes	3
Photog. 145—Workshop	3	Photog. 145—Workshop	3
F.A. 121—Hist. Ptg. & Sculp.	3	F.A. 122—Hist. of Ptg. & Sculp.	3
Art elective	3	Art elective	3
Electives	5	Electives	5
	17		17

Junior Program

Photog. 377—Portraiture	3	Photog. 378—Portraiture	3
Fine arts minor	3	Photog. 381—Problems	3
Electives	10	Fine arts minor	3
	16	Electives	7
			16

Senior Program

Photog. 379—Com. & Illustr.	3	Photog. 380—Com. & Illustr.	3
Photog. 381—Problems	3	Photog. 381—Problems	3
Electives	7	Electives	7

13 13

THE GRADUATE COLLEGE

DONALD R. CLIPPINGER

DEAN

PAUL R. MURPHY

ASSISTANT DEAN

Accounting
Architecture
(Minor work only)
Art
Art Education
Bacteriology
Botany
Business Administration
Business Education
*Chemistry
Classical Languages
(Minor work only)
Dramatic Art
Economics
*Education, School
Administration and
Supervision
Engineering and
Technology:
Chemical, Civil,
Electrical, and
Mechanical
*English
*Fine Arts
Geography
(Minor work only)
Geology
Government
*Guidance-Counseling

History
Home Economics
Human Relations
Industrial Arts
Journalism
Mathematics
Modern Languages
Music
Music Education
Painting and Allied Arts
Philosophy
Photography
Physical Education and
Athletics
*Physics
*Psychology
*Public Address
*Radio-Television
Sociology and
Anthropology
*Speech and Hearing
Therapy
*Student Personnel
Services in Higher
Education
Zoology

*Ph.D. granting areas

THE GRADUATE COLLEGE

The graduate program at Ohio University provides advanced professional training in the area of a student's field of specialization and affords opportunities for the conduct of research and special investigations in these same areas. The program of graduate study should become an initiation into methods of intensive study and research in some selected area of knowledge. It is the objective of the Graduate College to provide its students with a high degree of professional competence.

The Graduate College confers the degree of Master of Arts, Master of Education, Master of Science, Master of Fine Arts, or Master of Business Administration.

The degree of Doctor of Philosophy is granted in certain selected areas of study in the University. At present these are Chemistry, Elementary or Secondary Education, Guidance-Counseling, School Administration, Supervision, English, Fine Arts, Physics, Psychology, Public Address, Radio-Television, Speech and Hearing Therapy, and Student Personnel Services in Higher Education. Detailed information on these programs may be found in the Graduate College bulletin.

ADMISSION. A student holding a bachelor's degree from an accredited college or university who has attained an undergraduate scholastic point-hour ratio of 2.5 or better on hours attempted, and preferably a 3.0 (B) in the area of the proposed major, will be considered for admission with *regular status* in the Graduate College. Further supporting evidence of the student's ability in the form of the Graduate Record Examination* or other college ability tests and letters of recommendation may be requested.

A student holding a bachelor's degree from an unaccredited institution or a person whose undergraduate preparation is deficient will be required to supplement his undergraduate record with a satisfactory score on an acceptable standard college ability test.

A student with a master's degree will be considered for admission to graduate study for the doctorate, with the amount of graduate credit accepted by transfer subject to review and recommendation by the graduate committee of the department concerned.

All correspondence pertaining to the admission of a student to the Graduate College should be addressed to the Graduate College, Ohio University, Athens, Ohio.

Application for admission, together with the \$5 application fee and supporting credentials, including official transcripts for all academic work, should be received at least three weeks in advance of registration for the semester or summer term in which the student wishes to begin graduate study.

*Those who have taken this test are urged to have the Graduate Record Office report their scores to the Graduate College, Ohio University. Examinations are given in January, April, July, and November. Further information about the Graduate Record Examination may be obtained by writing to the Educational Testing Service, Princeton, New Jersey. Applicants in the West Coast region should write to the Educational Testing Service, P. O. Box 27896, Los Angeles 27, California.

Application for admission consists of the presentation of an application blank filled in by the applicant, an official transcript from *each* college attended, a vaccination and immunization blank certified by a physician, and a medical history blank filled in by the applicant and completed by a physician. The vaccination, immunization, and medical history blanks are not required if a student plans to attend the summer session *only* as a special student.

A graduate student who is attending another university may be admitted as a transient student by submitting an application and presenting an official statement of good standing from the university in which he is enrolled. Admission for a summer workshop only as a special student does not constitute regular admission to the Graduate College.

Admission to the Graduate College does not imply admission to candidacy for a degree.

For information concerning application for living quarters, write the Director of Housing, Ohio University, Athens, Ohio.

CLASSIFICATION OF STUDENTS ADMITTED TO GRADUATE STUDY:

1. Those students approved by the major department and the Dean of the Graduate College for unqualified admission to graduate study are granted *regular status*.
2. Students admitted under the provisions of *special status* may include those who wish to pursue course work with no intention of qualifying for a degree, those who are transient registrants, and those with some deficiency in entrance requirements. Students in this last category may achieve regular status after the satisfactory completion of a prescribed program of study to remove deficiencies.

SENIORS AND GRADUATE STUDY. A student who is within nine hours of completing all requirements for the bachelor's degree at Ohio University may take graduate courses, provided he otherwise meets the requirements of admission and secures the written recommendation of the dean of his college, the chairman of his major department, and approval of the Dean of the Graduate College. Request for the above privilege must be made *in advance of registration* through the Graduate College office.

ASSIGNMENT TO ADVISERS. A student who qualifies for admission to the Graduate College confers with the department chairman or the chairman of the graduate committee who has supervision over the subject matter in the area of his major interest. The chairman will assign a faculty adviser in the major and minor fields to counsel with the graduate student and prepare the outline of graduate study. The outline is returned to the Graduate College office where it is filed and becomes a part of the record of the graduate student.

GRADUATE STUDENT LOAD. The full-time academic load for a graduate student is 16 credit hours per semester (12 hours in the summer session of ten weeks). A student wishing to register for extra hours must secure approval of the major adviser and the Dean of the Graduate College.

STANDARDS OF WORK. All work submitted for graduate credit shall be of high quality. *The minimum standard acceptable is a point-hour ratio of 3.0 in all courses attempted in fields chosen to meet degree requirements, with no grade below C, and not more than 20 per cent of the work accepted with a grade of C.*

RESIDENCE AND CREDIT FOR THE MASTER'S DEGREE. At least 27 semester hours of credit plus research and/or thesis are required for the master's degree. A maximum of 8 semester hours of graduate credit with A or B grades may be accepted by transfer from approved institutions which offer the master's degree, provided the transferred course work is acceptable to the student's adviser and is *not more than five years old*. Credit for courses taken by correspondence is not accepted toward the degree. *A maximum of 12 semester hours taken in the Branches or 6 semester hours by extension is accepted toward the master's degree, provided the courses are approved for graduate credit.*

RESIDENCE AND CREDIT FOR THE DOCTOR OF PHILOSOPHY DEGREE. A minimum of six semesters of study and research beyond the bachelor's degree is needed to meet the requirements of the doctor's degree. At least two semesters of the doctoral program of study shall be in continuous residence at Ohio University, preferably the last semesters of study for the degree. The continuous residence requirement applies to the period of graduate study following the completion of the master's degree or the equivalent of 27 semester hours.

The amount of credit accepted by transfer from another university toward the doctorate will be determined by the graduate committee of the department concerned and the Dean of the Graduate College.

SPECIFIC REQUIREMENTS FOR THE DEGREES. Detailed information on specific requirements involving admission to candidacy, comprehensive examinations, preparation of the thesis or dissertation, time limit for meeting requirements, and other details of the graduate programs are described in the Bulletin and other publications of the Graduate College. For more explicit information address the Dean of the Graduate College.

GRADUATE ASSISTANTSHIPS; TEACHING AND RESEARCH FELLOWSHIPS. A number of graduate assistantships and research fellowships are available in the Graduate College of Ohio University. Persons receiving these appointments are selected on a basis of merit from students who have received the baccalaureate degree from approved institutions and who wish to pursue work leading to the master's or the Doctor of Philosophy degree.

Graduate assistantships provide a stipend of \$2,200 to \$2,400 for the academic year of two semesters and waiver of all fees (resident and non-resident) with the exception of a \$40 incidental fee. A matriculation fee of \$10 is charged all students on first entrance to Ohio University. The graduate assistant is required to give approximately 18 hours (6 to 8 contact hours of instruction) of service weekly to the University, and is permitted to carry 8 to 12 hours of graduate work, the hours in excess of 8 being subject to the approval of the Dean of the Graduate College and the chairman of the department in which the student is serving as an assistant.

The general registration fee and laboratory fees will also be waived during the summer sessions directly preceding and following the period of a graduate assistant's appointment.

A graduate assistant continuing study for a second year is eligible for a second appointment to the assistantship. The assistant who has completed two semesters of service with an exceptionally good record may, on the recommendation of his department, be reappointed for a second year at an increased stipend with waiver of the fees as noted above. Reapplication must be made annually.

Graduate assistantships are usually available to qualified students in the following fields: accounting, bacteriology, botany, business education, chemistry, dramatic art and speech, economics, education, engineering (including chemical, civil, electrical, and mechanical), English finance, fine arts, geology, government, history, home economics, human relations, industrial arts, journalism, management, mathematics, modern languages, music, painting and allied arts, philosophy, photography, physical education, physics, psychology, sociology, and zoology.

Teaching fellowships are granted to selected students in advanced graduate study and provide a stipend of \$2,400 to \$4,200 with the usual waiver of fees.

Research fellowships are established on the basis of grants-in-aid to the University for the conduct of research. Appointees to these fellowships must show exceptional aptitude for research. Their obligation involves the promotion of the research program of the department through which the grant is made. Fellows have no instructional service to perform and may normally carry 8 to 12 semester hours of work toward their graduate program. In general, the stipend and waiver of fees will be the same as that of an assistantship.

APPOINTMENTS IN PERSONNEL WORK. Positions are open annually for graduate assistants who will be appointed to assist the personnel deans. These assistants may pursue graduate work in any area of study but will find this experience especially valuable in training for teaching, counseling, student or industrial personnel service, and applications of the various social sciences. Stipend and other terms are the same as those of other graduate assistants.

Graduate appointments are also available to married men, with no children, as heads of residence in the dormitories for men. The compensation for this service is a furnished apartment and board for the man and wife, a stipend of \$1,200 per year plus the waiver of fees as

indicated for the graduate assistant. The head of residence will supervise the functions of the dormitory and coordinate the responsibilities of graduate assistants assigned to work with him. He is limited to nine hours of course work per semester.

Applications for all graduate appointments must be filed with the Dean of the Graduate College by March 1. Application blanks may be obtained from the office of the Graduate College.

SCHOLARSHIPS. University scholarships are available to college graduates who have maintained at least a 3.0 (B) undergraduate average. These permit full-time study and pay the basic registration (resident or non-resident) fee. Information may be obtained from the office of the Graduate College, Ohio University, Athens, Ohio.

THE DIVISIONS

THE BRANCHES

ALBERT C. GUBITZ, DEAN
ELDRED R. BOVENIZER, ASSISTANT DEAN

THE DIVISION OF PHYSICAL EDUCATION AND ATHLETICS

WILLIAM D. ROHR, DIRECTOR
CARL T. NESSLEY, ASSOCIATE DIRECTOR
ROBERT M. WREN, ASSISTANT DIRECTOR,
INTERCOLLEGiate ATHLETICS

THE RESERVE OFFICERS TRAINING CORPS

JOHN D. LUCAS, P.M.S.
DAVID G. SMITH, P.A.S.

THE UNIVERSITY EXTENSION DIVISION

ELIZABETH B. STANTON, DIRECTOR

THE SUMMER SESSION

THOMAS S. SMITH, DIRECTOR

THE BRANCHES

Branches of Ohio University operate in Chillicothe, Ironton, Lancaster, Martins Ferry, Portsmouth, and Zanesville. Strategic Air Command educational centers are operated at the Lockbourne and Blytheville Air Force Bases. Work at the freshman and sophomore levels is offered. Branches were originally established in 1946 in Chillicothe, Portsmouth, and Zanesville to accommodate the large number of World War II veterans desiring to enter college. They continued to develop and are now a permanent and significant part of the total University program. The branches in Lancaster and Ironton were established in 1956. The Martins Ferry Branch opened in 1957. In addition to late afternoon and evening classes, daytime classes are offered at Chillicothe and Portsmouth. Permanent campus sites are being acquired in the cities and plans are being made for their development.

All qualified high school graduates and adults are eligible to take work in the branches and may earn up to two years of credit in the fields of arts and sciences, business administration, and education. One year of credit may be earned in engineering and fine arts. Work leading to the Associate in Arts degree may be completed. A limited amount of graduate work is also offered.

Work offered in the branches is like that given on the main campus, with students receiving full residence credit. Many students after the second year transfer to the main campus or to other colleges and universities to complete the baccalaureate degree.

The cadet teacher program is featured in each branch and makes possible the completion of all requirements for the cadet teaching certificate. Twenty scholarships, ten freshman and ten sophomore, are awarded annually in each branch to students in this program. Locally sponsored scholarships are also available.

The branch program affords students the opportunity to pursue a college education while living at home and working full time or part time.

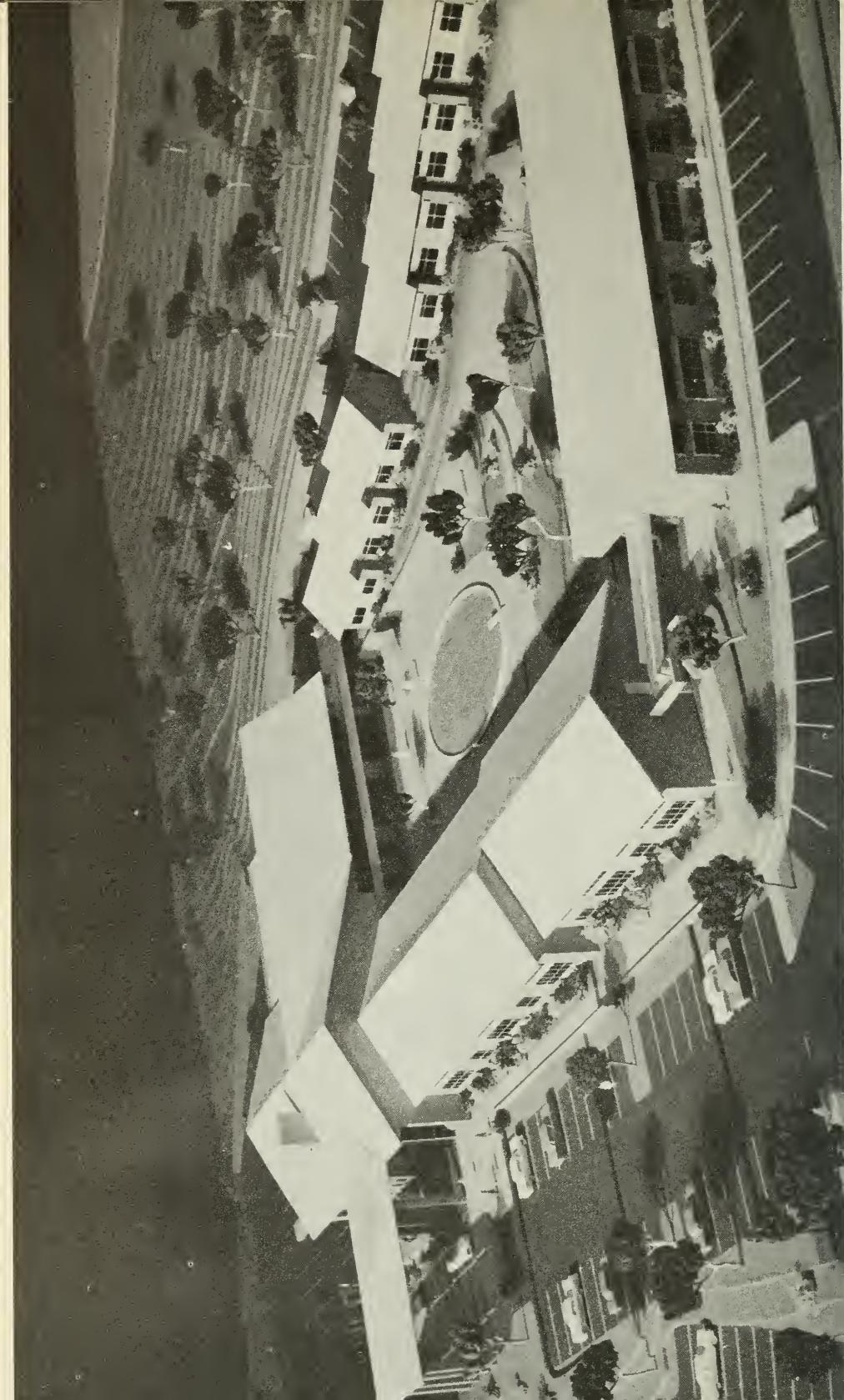
THE DIVISION OF PHYSICAL EDUCATION AND ATHLETICS

For nearly a century colleges and universities have recognized a responsibility for programs of student health practices, required physical education, recreational activities, intramural sports, or intercollegiate athletics. Ohio University has kept abreast of this educational movement.

Participation in selected physical activities which are harmonious with one's ability and desires contributes to general health, endurance, physical skill, mental and emotional poise, and to interesting recreational forms. These activities should be engaged in throughout life in order to develop and maintain an efficient physiology. When students ignore this phase of their education, they should understand that they



"Security in an Era of Conflict" was the issue considered at Ohio by Dr. Marshall D. Shulman, Kennedy Lecturer, and Research Associate at the Russian Research Center at Harvard.



The new University Inn contains approximately 180 bedroom suites, seminar and conference rooms, a ballroom, a swimming pool, and several dining rooms.

are closing doors against many interesting and beneficial activities which would contribute to better living. In addition to purely physical development, sports and athletic programs are rich with possibilities for the acquiring of social intelligence, sportsmanship, recreational skills, and lasting friendships. These qualities fit into the American way of living.

With this in mind the Division of Physical Education and Athletics is pursuing a broad educational program which is designed to fit the diversified interests of all men and women at the University. The functions of the Division fall into the following categories:

1. *Close coordination with the program of health services directed by physicians and nurses at the Hudson Health Center.*

2. *Required physical education courses for men and women.*

Two semesters of Physical Education are required. Within practical limitations of scheduling, students may elect freely from the program. Additional courses may be elected beyond these two semesters. Subject to exceptions listed by the colleges, men and women may apply four hours of this credit toward degree requirements.

(a) The program for men includes dual, individual and team sports, aquatics, combatives, gymnastics and rhythgmics. Upon request physical proficiency and sports tests may be taken, and, if prescribed standards are met, the requirement may be reduced.

(b) The program for women includes dual, individual and team sports, aquatics, rhythgmics, and outing activities.

For additional information on (a) and (b) refer to "Physical Education" in the graduation section of the catalog.

3. *Adapted Activities.*

Men and women who for any medical reason are unable to participate in the regular program are assigned with medical permission to a class where they will be directed in activities adapted to their special needs.

4. *Intercollegiate Athletics.*

Ohio University is a charter member of the Mid-American Conference which is composed of seven prominent universities in the middle west. The other members are Miami, Toledo, Western Michigan, Kent, Bowling Green, and Marshall.

In the administration, financing, organization and management of the intercollegiate athletic program, the Division of Physical Education and Athletics adheres to the policies of the National Collegiate Athletic Association and the Mid-American Conference. All students are encouraged and welcomed to try out for any team of their choice. Ohio University teams go into competition thoroughly coached and trained. This training under excellent leadership makes it a privilege and an honor to participate on athletic teams at the University.

Medical attention for athletic squads is under the direction of a team physician. He has at his disposal the personnel and facilities of a modern university hospital, and is aided by a qualified and experienced trainer.

University teams are organized in the following sports: football, basketball, baseball, track, wrestling, cross country, golf, soccer, tennis, swimming, riflery, and ice hockey. The ice hockey team is a member of the Ohio Intercollegiate Hockey Association.

For women, intercollegiate competition is scheduled in field hockey, basketball, softball, golf, and tennis. Women adhere to policies recommended by the Division for Girls and Womens Sports and by the Women's Physical Education Section of the Ohio College Association.

5. Intramural sports and recreational activities.

The Division offers an extensive program of intramural sports for men and women. Students are encouraged to make use of available facilities in their leisure time. This provides a way for students to participate in sports and recreation. Upon request, clubs will be organized in sports or physical recreation activities as facilities and personnel are available.

6. Major and minor curricula.

Major and minor curricula are offered for prospective teachers of health education, physical education, athletic coaching, and recreational leadership. By fulfilling the requirements, students who major in the Division of Physical Education and Athletics will apply for the degree, Bachelor of Science in Education.

The Division also offers a program of graduate study leading to the Master's Degree. See Item 7.

A major in physical education and athletics prepares men and women students for the following positions: teacher of physical education in the elementary and secondary schools, teacher of health, playground director, athletic coach, camp counselor, and recreational leader for industrial concerns and municipalities.

The Division encourages major students to assist with the instruction in men's and women's physical activity classes. This experience is advantageous to a prospective teacher.

A minor in physical education and athletics is the minimum program acceptable to the State Department of Education for the teaching of physical education and the coaching of athletic teams in the schools of Ohio.

A minor in health education will qualify the student to assume health education responsibilities in the elementary and secondary schools.

A minor in recreation will prepare the student for leadership in school, industrial and community recreation, summer playground programs, and outing or camping activities.

The university requirements pertaining to English composition, physical education, and speech, which are not indicated in the curric-

ula below, are outlined in the University College section of the catalog.

The following courses constitute a teaching major in physical education and athletics:

MEN

Freshman Program

	Hours		Hours
First Semester		Second Semester	
Zool. 3—Principles of Zoology	4	Zool. 4—Principles of Zoology	4
P.E. 61—Introduction to Physical Education	1	(elect for science deficiency)	
		P.E.—(elected service course to strengthen skill weakness)	1

Sophomore Program

P.E. 102—Personal and Community Health	3	P.E. 150—Recreation (either sem.)	3
P.E. 127—First Aid	2	P.E. 166—Program Skills	2
P.E. 165—Program Skills	2	P.E. 168—Football Skills	1
Zool. 133—Anatomy and Kinesiology	4	Zool. 134—Physiology	3
		P.E. 181—Administration of Intramural Activities	2

Junior Program

P.E. 221—Program Skills	2	P.E. 222—Program Skills	2
P.E. 267—Athletic Coaching	4	P.E. 268—Athletic Coaching	4
P.E. 233—Theory of Adapted Activities	2	P.E. 269—Teaching of Health (either semester)	3
P.E. 395—School Health Problems or Psych. 131 (3), Psych. 174 (2), or P.E. 352 (3)	2-3	P.E. 135—Program Techniques (either semester)	1

Senior Program

P.E. 304—History and Principles	3	P.E. 306—Organization and Administration	3
P.E. 309—Tests and Measurements	3		

WOMEN

Freshman Program

	Hours		Hours
First Semester		Second Semester	
P.E. 1—Hockey, Soccer	1	P.E. 4—Intermediate Swimming	1
P.E. 7—Modern Dance	1	P.E. 8—Modern Dance	1
Zool. 3—Principles of Zoology	4	P.E. 17—Beginning Tennis	1

Sophomore Program

P.E. 121—Program Skills	2	P.E. 122—Program Skills	2
P.E. 127—First Aid	2	Zool. 134—Physiology	3
P.E. 150—Recreation	3	P.E. 102—Personal and Community Health	3
Zool. 133—Anatomy and Kinesiology	4		

Junior Program

P.E. 13—Mass Games	1	P.E. 233—Theory of Adapted Activities	2
P.E. 272—Teaching Methods	2	H.Ec. 161—Home Nursing and Family Health (2) or Psych. 131—Adjustment (3) or P.E. 395—School Health Problems (3)	2-3
P.E. 269—Teaching of Health	3	P.E. 275—Teaching of Rhythmic Activities	1
P.E. 274—Teaching of Rhythmic Activities	1	P.E. 273—Teaching Methods	2
P.E. 304—History and Principles	3		

Senior Program

Student Teaching	7-11	P.E. 306—Organization and Administration of Phys. Ed.	3
		P.E. 309—Tests and Measurements	3

The following courses are suggested to meet the minimum of 24 semester hours required by the State Department of Education for a teaching minor in health and physical education.

	Hours
1. Biological Science— Biology, Zoology, or Human Anatomy and Physiology	6

2. Principles and Organization	6
P.E. 304—History and Principles of Physical Education	(3)
P.E. 306—Organization and Administration of Physical Education	(3)
3. Theory and Practice	4
MEN	WOMEN
P.E. 165, 166—Program Skills (2-2)	P.E. 1—Hockey, Soccer (1)
P.E. 221, 222—Program Skills (2-2)	P.E. 7, 8—Modern Dance (1-1)
	P.E. 13—Mass Games (1)
	P.E. 121, 122—Program Skills (2-2)
4. Theory and Coaching	4
MEN	WOMEN
P.E. 139—Athletic Officiating (2)	P.E. 139 or 140—Athletic Officiating (1)
P.E. 168—Football Skills (1)	P.E. 272—Teaching Methods (2)
P.E. 181—Administration of Intramural Activities (2)	P.E. 273—Teaching Methods (2)
P.E. 267—Athletic Coaching (2-4)	
P.E. 268—Athletic Coaching (2-4)	
5. Health Education	7-8
MEN AND WOMEN	
P.E. 102—Personal and Community Health	(3)
P.E. 269—Teaching of Health	(3)
Elect from following (2-3):	
P.E. 127—First Aid	(2)
P.E. 128—Athletic Training	(2)
P.E. 142—Camp Leadership	(2)
Ind. A. 5—Driver Education	(1)

The following courses constitute a state certified minor in health education:

MEN AND WOMEN	
Speech 1—Fundamentals of Speech	3
P.E. 102—Personal and Community Health	3
Ed. 103—Studies of Children	3
P.E. 127—First Aid	2
Zool. 133, 134—Anatomy, Kinesiology, and Physiology	7
P.E. 269—Teaching of Health	3
Psych. 131—Adjustment	3
P.E. 395—School Health Problems	3
	25

The following courses constitute a minor in recreation leadership:

MEN AND WOMEN	
Soc. 101—Principles of Sociology	3
Speech 3—Public Speaking	2
Ind. A. 9—Craft and Hobby Work	2
P.E. 15—Folk and National Dancing	1
P.E. (65-66)—(121-122) or (165-166)—(221-222)—Program Skills	4
P.E. 127—First Aid	2
P.E. 150—Recreation (Social and party games, low cost crafts, square dance, theories of play, institutional recreation)	3
P.E. 349—Community Recreation (organization and administration, finance, facilities, history of, play ground supervision)	3
	20
Elective courses:	
P.E. 7—Beginning Modern Dance	1
P.E. 8—Intermediate Modern Dance	1
P.E. (65,66)—(121,122) or (165,166)—(221,222)—Program Skills	4
Dram. A. 105—Play Production	3
P.E. 114—Camp Craft	1
P.E. 118—Life Saving and Water Safety	1
P.E. 142—Camp Leadership	2
P.E. 153—Nature and Function of Play	2
P.E. 274, 275—Teaching of Rhythmic Activities	2

Elect from the above to total a minimum of 24 hours

7. The Master's Degree in Physical Education.

The graduate student in physical education has optional plans of study. Plan A includes 27 semester hours of course work plus a 4 semester hour thesis. Plan B is 32 semester hours of course work, including a 3 hour research seminar.

Plan A

A graduate student may work toward either the Master of Science or Master of Education in Physical Education, depending on his background of preparation and program of graduate study.

Students who elect graduate study in physical education and the related subjects of health education and recreation may combine these interests into a major of 12 to 18 course hours and a thesis. One or two other areas will be associated with this major to complete 27 course hours plus a 4 hour thesis.

Associated areas or minors may be selected from related graduate course offerings in the University with the understanding that a minimum of 6 or more hours of prerequisite study are usually required before graduate study is permitted. The following minors are commonly selected: educational administration, counseling and guidance, history, human relations, social science, biological science, psychology, or industrial arts. The student, however, is in no way limited to these areas. The student electing to follow Plan A leading to the M.S. or M.Ed. degree will comply with the requirements outlined in the Graduate College Bulletin.

The student must pass a written comprehensive examination based on the courses taken in his major field of study. This examination is taken as directed by the major department.

Plan B

Plan B permits the graduate student to work towards the Master of Education degree. This plan is available under the same requirements as Plan A, except for the following provisions:

1. The student must be approved for the program by the committee on graduate study in physical education. This approval is given only if, after a review of the student's educational aims and interests, the program seems to fit his needs.
2. The student will complete a minimum of 32 semester hours of credit for the degree. Within this program 16 to 20 course hours are taken in his major field. One or two other areas will be associated with this major to complete the required hours.
3. A seminar research course is required. The student will develop a problem in health education, physical education, recreation, athletics, or a related area. The written report of the problem must conform with the format as recommended by the Graduate College for research writing.
4. The student must pass a written comprehensive examination based on the courses taken in his major field of study. This examination is taken as directed by the major department.

THE RESERVE OFFICERS TRAINING CORPS DIVISION

GENERAL. Ohio University maintains a Senior Division, Reserve Officers Training Corps, consisting of two coequal departments:

THE DEPARTMENT OF MILITARY SCIENCE

THE DEPARTMENT OF AIR SCIENCE

In 1935, the Board of Trustees entered into an agreement with the Government for the establishment of a voluntary ROTC unit which during subsequent years has been developed and expanded into the two coequal departments indicated above. A committee appointed by the President of the University coordinates affairs of the ROTC and acts as liaison between these departments and the university administration.

Each department chairman is the senior officer on duty in the department and is referred to either as the Professor of Military Science (PMS) or the Professor of Air Science (PAS). Other officers are assigned as assistant professors, and enlisted men are assigned as instructors.

Each department offers a two-year basic course and a two-year advanced course. Enrollment in either course is elective and may normally be pursued as a course for elective credits for a degree (see college sections). However, once either course is elected by a student, it becomes a prerequisite for graduation, unless he is relieved from this obligation by the appropriate ROTC Department.

MISSION. The mission of Ohio University Reserve Officer Training is to select and train college students so that they may receive commissions as junior officers in the Regular and Reserve components of the United States Air Force and Army.

BASIC COURSE ENTRANCE REQUIREMENTS. In general, any physically qualified male student, who is a U.S. citizen and is more than 14 years of age is eligible for enrollment in the basic course. Nonveteran students desiring to complete the ROTC course should register for ROTC when they first enter college because normally four years are required to complete the course.

ADVANCED COURSE ENTRANCE REQUIREMENTS. Applicants for the advanced course must meet current academic, physical and moral selection criteria at time of enrollment in the advanced course.

DRAFT DEFERMENTS. The Armed Forces are authorized to grant deferments from military service, subject to quota limitations, to students who are enrolled in an ROTC course and who maintain a satisfactory academic standing.

SUBSISTENCE ALLOWANCE. All students enrolled in the Advanced course are currently paid an allowance of \$0.90 per day. During attendance at summer training, students receive pay amounting to approximately \$72.00 and travel allowances. Thus it is possible for a cadet to receive over \$600.00 while in the advanced course.

UNIFORMS AND EQUIPMENT. Textbooks, training equipment, and complete uniforms are issued to all ROTC students without cost. These articles remain the property of the University or the United States Government and must be returned. Each ROTC cadet is required to pay a \$2.50 activity fee each year to cover expenses encountered during cadet activities.

Students entering the advanced course receive without cost a complete officer-type uniform. Upon completion of the advanced course, the student retains this uniform as his own.

COMMISSIONS. A student who successfully complete the ROTC advanced course and his academic studies, leading to a baccalaureate degree, may be offered a commission as a second lieutenant in the United States Army Reserve or the United States Air Force Reserve.

Students who have successfully completed the first year of the ROTC advanced course and have shown evidence of outstanding leadership, scholarship, and achievements in extra-curricular activities are eligible for appointment as "distinguished military students." Distinguished military students are eligible to apply for commissions in the Regular Air Force or Army.

SPECIAL SCHOOLING. Under provisions of the Army Civilian School Program, commissioned graduates may apply for graduate training in specialized fields. Commissioned Air Force Graduates may receive similar training through the Air Force Institute of Technology Program. These specialized studies are pursued at selected civilian universities (both AF and Army personnel) or at the Air Force Institute of Technology (AF personnel) at government expense by the student officer in residence. Such studies lead to a master's degree, or to the degree of Doctor of Philosophy.

ARMY. The Army General Military Science program consists of a two-year Basic Course and a two-year Advanced Course. This program, including a summer camp, prepares the individual for a commission in any of the various branches which make up the Army. For example, during recent years Army ROTC graduates of Ohio University have been commissioned in the Adjutant General Corps, Armor, Artillery, Chemical Corps, Finance Corps, Infantry, Medical Service Corps, Ordnance Corps, Quartermaster Corps, and Signal Corps. Assignment to a branch will depend on several factors including the needs of the service, the desires of the individual, and his academic background. Every effort will be made to commission Army ROTC

graduates in a branch for which they are particularly well fitted by virtue of their college training. From this it may be seen that there are many opportunities available to the student who receives a commission in the Army. Individuals commissioned as a result of their Army ROTC training may be called to active duty for six months or two years, thus fulfilling their military obligation as required by existing laws. During their senior year, physically qualified individuals may enroll in the Army ROTC Flight Training Program. This qualifies the graduate for the Army Aviation Program once he enters active military duty. Successful completion of this training may qualify the student for a private pilot's license.

AIR FORCE. The Air Force ROTC course of study is divided into the Basic Course comprising the first two years and the Advanced Course covering the junior year, summer training, and the senior year. The senior course is designed to provide fundamental training, both personal and professional, which will best enable the cadet to become a well-rounded junior Air Force officer and also to properly motivate him toward an Air Force career. Upon completing the course and being selected for commissioning, he is assigned a military occupation specialty in accordance with his academic training, his desires, and the needs of the Air Force. Qualified cadets have the choice of selecting flying or non-flying active duty at the beginning of their junior year. Those cadets selecting non-flying duty have the opportunity of working in career fields compatible with their college training. Those cadets selecting pilot active duty will receive 36 hours of pilot training in their senior year which may qualify them for a private pilot's license. This flight training is provided at no cost to the cadet as part of the Air Force ROTC Program.

THE UNIVERSITY EXTENSION DIVISION

The University Extension Division offers work in the form of extension classes, correspondence study, and evening school classes on the campus. It is approved by and holds membership in the National University Extension Association.

EXTENSION CLASSES. An instructor will be sent to a community once a week for an extension class provided a sufficient number of persons has agreed upon a course. The number necessary depends upon the distance from the campus. The number and length of class periods are determined by the amount of credit allowed for the course.

CORRESPONDENCE STUDY. Courses in many departments are offered and are taught by members of the regular faculty. These courses appeal to any person who wishes to engage in systematic study during his spare time. They may be studied on a credit basis or a non-credit basis, and registration may be made at any time.

EVENING SCHOOL. Several courses are offered each semester for both credit and non-credit. Credit courses carry residence credit and are open only to qualified adults and high school graduates.

ADMISSION. An extension class student or a correspondence student is not required to present an application for admission to the University. A student under 21 years of age may not enroll in an extension class or in correspondence study for college credit unless he has fifteen units of high school work earned in an accredited secondary school. A person 21 years of age, or over, however, who lacks the required high school units for college entrance may enroll for college credit in any course if the instructor finds him qualified to carry the course.

To be admitted to Ohio University for correspondence instruction or for extension class instruction does not imply that the student will be admitted later for study in residence. A separate application must be filed with the Director of Admissions for admission to residence study.

CREDIT. In extension classes and in correspondence study combined, a student may earn as much as 25 per cent of the semester hours required for a bachelor's degree, diploma, or certificate.

No credit toward a graduate degree may be earned by the correspondence method.

If a student is currently registered in residence at Ohio University, or at another college or university, he must have the written permission of his dean to enroll in correspondence study.

BLANKS. Applications for correspondence instruction may be secured from the Director of the Extension Division. Registration blanks for extension class instruction may be obtained from the instructor when the class is organized.

Persons interested in any of the opportunities afforded by the Extension Division may obtain additional information by writing to the Director of University Extension, Ohio University, Athens, Ohio.

THE SUMMER SESSION

The Summer Session at Ohio University consists of two five-week terms. It represents a cross section of the total program of the University. Enrollment in the Session in conjunction with the two semesters provides an opportunity for year-round study. A student who enrolls at Ohio University immediately after high school graduation and who attends all summer sessions, may reasonably expect to graduate in three years.

A special bulletin covering the offerings of the Summer Session is available and may be secured by sending a request to the Director of the Summer Session, Ohio University, Athens, Ohio.



Our Engineering Department in cooperation with Ohio State University and NASA is investigating the surface of the moon by electro-magnetic wave scattering.

COURSES OF INSTRUCTION

Course offerings of the University
grouped and listed alphabetically
according to departments

COURSES OF INSTRUCTION

EXPLANATION

CATALOG NUMBER. The catalog number indicates the student classification for which the course is primarily intended.

1- 99 for freshmen

100-199 for undergraduates above the freshman level

200-299 for advanced undergraduates (juniors and seniors)

300-399 for advanced undergraduates and graduate students

400-499 exclusively for graduate students

In general, an odd number indicates the first semester of a two-semester course; an even number, the second semester. An exception occurs in the numbers used for the teaching techniques courses.

Two numbers at the beginning of a course indicate a two-semester or year course. A *hyphen* between the numbers indicates that the course is a continuous course; that is, the first semester course is a prerequisite for the second semester. A *comma* between the numbers indicates that although the course is a two-semester course, the first semester course is not a prerequisite for the second semester.

CREDIT. Credit for a course is indicated by the number or numbers in parentheses following the course title, and, in case of a year course, is shown for each semester. In a semester course it may be expressed thus: (3), (1 to 3), or (2 or 3); in a year course, (3-3), (3, 3) (1 to 3—1 to 3), or (2 or 3—2 or 3).

A course with one semester hour credit (1) is the equivalent of one recitation or two or more laboratory periods a week throughout a semester.

In a course carrying variable credit the credit may be expressed thus, (1 to 4), indicating that one hour is the minimum and four hours the maximum amount of credit allowed for the course in one semester. A student may enroll for a course with variable credit any number of times and for any number of semester hours, within the semester limit, provided the total registration for the course does not exceed the maximum credit indicated in the course description.

Course prerequisites are indicated at the end of course descriptions following the abbreviation, "Prereq." A student who completes an advanced course may not subsequently enroll in a prerequisite course for credit.

INSTRUCTORS. The listing is as of October, 1963.

FEES. When a course requires a private instructional fee, the amount is stated in the description of the course.

CLASS SCHEDULE. A Schedule of Classes is available each semester from the Registrar.

ACCOUNTING

Professors Beckert, Fenzel

Associate Professors Neubig, Raby, Reininga (chairman)

Assistant Professor Sheppard

Part-time Instructor Kelton

75-76. ELEMENTARY ACCOUNTING

(3-3) Beckert, Fenzel, Kelton, Neubig,
Raby, Reininga, Sheppard

The fundamental principles of accounting theory and practice as they affect corporations, partnerships, and proprietorships.

111. INDUSTRIAL ACCOUNTING

(3) Beckert

A survey course covering basic accounting principles with emphasis on procedures used in accounting for material, labor, and overhead in job-lot and process cost systems. Prereq., not open to students working toward the Bachelor of Business Administration or Bachelor of Science in Secretarial Studies degrees. No credit allowed for this course for students who have completed Accounting 75-76.

125-126. INTERMEDIATE ACCOUNTING

(3-3) Beckert, Neubig, Sheppard

Preparation and analysis of accounting statements; special problems in accounting for current, fixed, and intangible assets, for liabilities, and for corporate net worth; funds and reserves; and investments. Prereq., 76.

175. COST ACCOUNTING

(3) Reininga

Manufacturing cost determination under the job-order and process systems. Prereq., 76.

217. FEDERAL TAXES

(3) Raby

Beginning study of Federal income taxes for individuals, partnerships, and corporations. Prereq., 76 or 111.

261. TEACHING OF BOOKKEEPING AND BASIC BUSINESS

(2) Beckert

Prereq., 125.

275. GOVERNMENTAL AND INSTITUTIONAL ACCOUNTING

(3) Staff

Prereq., 126.

305-306. ADVANCED ACCOUNTING

(3-3) Neubig

Problems peculiar to partnerships, receiverships, fiduciaries, installment sales, consignments, insurance, estates and trusts; compound interest applications; governmental accounting; branches, consolidations, and mergers; and foreign exchange. Prereq., 126.

324. STANDARD COSTS AND BUDGETS

(3) Reininga

The establishment of standard costs, preparation of budgets, and analysis of cost variances. Prereq., 175.

343. FEDERAL INCOME TAX ACCOUNTING

(3) Raby

Study of advanced tax problems of individuals, partnerships, and corporations including tax planning and administration. Prereq., 217.

355. INDUSTRIAL AUDITING AND INTERNAL CONTROL

(3) Beckert

Study of types of internal audits, audit reports, fraud, and an appraisal of the standards of internal auditing as a profession. Basic and internal controls are studied in their relation to the auditor's program. Prereq., 126 and 175.

356. AUDITING PRINCIPLES AND PRACTICE

(3) Beckert

Purposes and scope of audits and examinations; audit principles and procedure; application of audit principles to practice material based on actual audit; and audit reports and certificates. Prereq., 126 and 175.

378. C.P.A. PROBLEMS

(3) Neubig

The accounting profession; C.P.A. coaching; analysis, interpretation, and solution of state board problems. Prereq., 175, 305 or permission.

381. RESEARCH IN ACCOUNTING

(1 to 8) Staff

Prereq., 305, 324, permission.

391. SEMINAR IN ACCOUNTING

(2 to 4) Staff

Maximum credit in course, 10 hrs. Prereq., 15 hrs., permission.

401. ACCOUNTING THEORY (3) Reininga
The development of accounting theory historically and current developments and literature in the theory area. Prereq., permission.

402. ACCOUNTING DATA ACCUMULATION AND ANALYSIS (3) Neubig
Accounting systems with particular relations to punched card and computerized data processing. Techniques in the quantitative analysis of accounting data. Prereq., permission.

403. HISTORY, ETHICS, AND PHILOSOPHY OF THE ACCOUNTING PROFESSION (3) Neubig
Court cases involving the profession, Securities and Exchange Commission, regulation of practice, evolution and ethics of the profession, and the philosophy of auditing. Prereq., permission.

405. CONTROLLERSHIP (3) Raby
Case method study of problems and policy-forming decisions of the controllership function which comprises the fields of general accounting, internal control, budgeting, taxes, cost control, and financial reporting. Prereq., permission.

425. MANAGERIAL ACCOUNTING (3) Roby
A survey course designed for the Master of Business Administration degree student with particular emphasis on the uses of accounting data in making business decisions. Prereq., 6 hrs.

481. RESEARCH IN ACCOUNTING (1 to 3) Staff
Independent study in either the area of accounting theory, public accounting, controllership, governmental accounting, or Federal taxes. Prereq., permission.

491. SEMINAR IN ACCOUNTING (2 to 4) Staff
Maximum credit in course, 8 hrs. Prereq., permission.

495. THESIS (1 to 6) Staff
Prereq., permission.

499. INTERNSHIP (2 to 4) Staff
Six months of acceptable accounting work experience including periodic written reports, a final report, and an oral examination—all analyzing the work experience and integrating it with the academic program pursued. Prereq., permission.

ADVERTISING

Professors Krauskopf (chairman), Turnbull
Associate Professors Paynter, Raymond
Assistant Professor Richmond

155. ADVERTISING PRINCIPLES (3) Krauskopf, Raymond, Richmond, Turnbull
A survey of advertising which considers its place in the field of marketing and its fundamental procedures. Prereq., Mkt. 155 or permission.

286. RETAIL ADVERTISING (3) Krauskopf, Richmond
The principles of advertising as related to the needs of retailers. Prereq., 155.

332. COPY WRITING (2) Turnbull
The elementary essentials of copy developed by the study of current theory and analysis of tested examples. Considerable constructive work is required. Prereq., 155 and Ec. 12 or 102.

376. ADVERTISING PROBLEMS (3) Krauskopf, Richmond
 A logical sequel to 155. It emphasizes administrative problems and the coordination of advertising with other marketing activities. Prereq., 155.

381. RESEARCH IN ADVERTISING (1 to 8) Staff
 Prereq., 18 hrs. business administration including 5 hrs. advertising, and permission.

391. SEMINAR IN ADVERTISING (2 to 4) Staff
 Maximum credit in course, 10 hrs. Prereq., 18 hrs. business administration including 5 hrs. advertising and permission.

495. THESIS (1 to 6) Staff
 Prereq., permission.

Additional courses:

- Art 247-248—Advertising Design
- Jour. 146—Typography, Mechanics, and Makeup
- Jour. 247—Newspaper Advertising and Layout
- Jour. 277—Newspaper Advertising Practice
- Jour. 309—Radio-Television Advertising and Management
- Jour. 327—Public Relations Techniques
- Jour. 328—Public Relations
- Jour. 348—Advertising Production
- Psych. 162—Psychology of Advertising and Selling

AGRICULTURE

Professor DeVeau (chairman)
 Assistant Professor Straight

1, 2. INTRODUCTION TO AGRICULTURE (3, 3) DeVeau
 A general education course for all students to develop an understanding of the efficient use and conservation of agriculture's resources. A survey of the different agricultural enterprises, their interrelationships, and their relation to state and national agricultural problems. Identification of crops and livestock and their use. 2 lec., 2 lab. (Yearly.)

30. FORESTRY (3) Straight
 The practical application of forest products to the farm including identification of common trees and woods. 2 lec., 2 lab. (Each sem.)

102. GARDENING (3) DeVeau
 A study of the production, marketing, and preservation of vegetables for the home and market. A survey of plants raised in the garden and greenhouse. Garden planning and flower arrangement. 2 lec., 2 lab. (2nd sem.)

104. FRUIT PRODUCTION (3) Straight
 Study of propagation, planting, fruit-setting, nutrition, thinning, disease and insect control, harvesting, grading, and marketing of tree and small fruits. (2nd sem.)

121. LIVESTOCK MANAGEMENT (4) DeVeau
 The fundamentals of dairy, poultry, and general livestock production. A study of feeding programs, breeding methods, housing, judging and selection, record keeping, disease control, and marketing. 3 lec., 3 lab. (1st sem.)

201, 202. FARM PRACTICES (3, 3) Straight
 Experience in planning and conducting farm operation practices. 1 lec., 4 lab. (Yearly.)

211. GREENHOUSE PRACTICES (3) DeVeau
Experience in the University greenhouse in planning and conducting greenhouse operation practices. (1st sem.)

212. FLORIST PRACTICES (2) DeVeau
Indoor culture of flowers. Florist management techniques. Arrangement of flowers and plants. 1 lec., 2 lab. Prereq., permission. (2nd sem.)

216. CROPS AND SOILS (4) DeVeau
A study of the common grain and forage crops. Soil types and their relation to crop production. Use and analysis of manures and fertilizers. 3 lec., 3 lab. (2nd sem.)

217. SOIL CONSERVATION (3) Stright
A study of recommended practices in soil conservation for practical application on the farm. 2 lec., 2 lab. Prereq., 216 or permission. (1st sem.)

235. FARM MANAGEMENT (3) DeVeau
The application of agricultural technology and economics information to the securing of maximum income from the farm. 2 lec., 3 lab. Prereq., 121, 216. (1st sem.)

320. AGRICULTURAL ORGANIZATIONS (3) DeVeau
A study of the major agencies organized to promote agriculture and rural living. 2 lec., 2 lab. Prereq., 15 hrs. agriculture or business or both, permission. (2nd sem.)

322. AGRICULTURAL PROBLEMS (1 to 4) Staff
Intensive individual work either in research or in systematic reading or both in some advanced phase of agriculture under the guidance of the instructor to meet the needs and interests of the student. Maximum credit in course, 9 hrs. Prereq., 15 hrs. and permission. (Each sem.)

381. RESEARCH IN AGRICULTURE (2 to 4) Staff
Maximum credit in course, 6 hours. Prereq., 18 hrs. and permission. (Each sem.)

ARCHAEOLOGY AND ANTIQUITIES Instructor Hultgren

101. INTRODUCTION TO ARCHAEOLOGY — EGYPT (3) Hultgren
Aims, methods, and techniques; general types of archaeological work and excavation with emphasis on Egyptian sites. May be taken by students who have had 103 and/or 252 as well as by beginners. (1st sem., 1964-65.)

103. INTRODUCTION TO ARCHAEOLOGY — ROME (3) Hultgren
Similar to 101, but with emphasis on Roman sites. May be taken by students who have had 101 and/or 252 as well as by beginners. (1st sem., 1965-66.)

252. ARCHAEOLOGY OF GREECE (3) Hultgren
The archaeology of Greece and the Aegean islands with emphasis on Minoan and Mycenean civilizations. Prereq., 101 or 103; or 11 hrs. foreign language; or 8 hrs. history (or art history) and antiquities. (2nd sem., yearly.)

ARCHITECTURE

Professor Taylor (director)
 Assistant Professors Millman, Olpp
 Instructors Everett, Lauer
 Lecturer LeBoutillier
 Part-Time Instructors Sheng, Stephens

111. INTRODUCTION TO ARCHITECTURE (3) Everett
 Basic introduction to the nature, practice, and theory of architecture. Required of architecture majors. Open to non-majors.

112. BASIC DESIGN (4) Everett, LeBoutillier, Millman, Olpp
 Organization of 2-dimensional visual material and graphic description using instrumental and freehand drawing.

111. BASIC DESIGN (4) Everett, LeBoutillier, Millman, Olpp
 Continuation of Arch. 12 with emphasis on 3-dimensional studies, structural and spatial, with description by freehand and instrumental drawing. Prereq., 12.

112. SOPHOMORE DESIGN (5) Everett, LeBoutillier, Millman, Olpp
 Transition from basic to architectural design by application of basic design principles to programs for human use. Analysis of primary determinants and secondary influences formulated for design solutions. Models and display drawings. Prereq., 111.

181. THEORY OF CONSTRUCTION (2) Lauer
 Application of principles of statics and strength of materials to conventional components of building construction. 2 lec., Prereq., Math. 16.

255-256. JUNIOR DESIGN (5-5) Everett
 Analysis, programming, and presentation of design solutions to a sequence of architectural problems of limited detail. 15 studio hours. Prereq., 112.

279. MATERIALS OF CONSTRUCTION (3) Lauer
 Study of the properties of conventional and newer types of materials utilized in building construction and their interaction in assembly. 3 lec. Prereq., permission.

281-282. STRUCTURAL DESIGN (3-3) Lauer
 Architectural construction in wood, steel, concrete, and masonry. 2 lec. Prereq., 181 or permission.

283. MECHANICAL AND ELECTRICAL EQUIPMENT OF BUILDINGS (3) Lauer
 Mechanical equipment used in buildings, including plumbing and heating systems. 3 lec. Prereq., Phys. 5, 6 or permission.

284. CONSTRUCTION DRAWING (2 or 3) Stephens
 Drafting room application of the coordinated uses of materials and construction principles. 6 lab. Prereq., 279, 282.

301. PROBLEMS IN ARCHITECTURE (1 to 3) Staff
 Supervised individual projects. Maximum credit in course, 12 hrs. Prereq., senior and junior majors.

311-312. CITY PLANNING

(2-2) Millman

Lectures, seminar, special lectures on geography, sociology, economics, and political science related to city planning, contemporary examples and practice, the architect's role in planning. Required of fifth year students in architecture. Open to advanced or graduate students from social sciences by permission. 2 lec. Prereq., 375, 386.

370. CIVIC DEVELOPMENT

(3) Everett

Investigation of the components of civic design with emphasis on historical and present examples as aids to determining the principles underlying civic design. Scale models and readings from contemporary theorists.

375. ARCHITECTURE IN THE UNITED STATES

(3) Everett

Development of architecture from colonial times. 3 lec. Prereq., F. A. 176 or permission.

377. NINETEENTH AND TWENTIETH CENTURY ARCHITECTURE

(2) Taylor

An intensive study of the rise of contemporary architecture, the education, practice, theories, and works of prominent architects. Lectures, assigned presentations, and seminar discussions. Required of majors. Open to graduate students in Fine Arts by permission. Prereq., F. A. 17-18, 371, Arch. 375, or equivalents.

378. PHILOSOPHY OF ARCHITECTURE

(2) Taylor

Theories of architecture advanced or exemplified by philosophers, estheticians, and architects. Lectures, assigned presentations, and seminar discussions. Required of majors; open to graduate students in Fine Arts by permission. Prereq., 377.

381. ADVANCED STRUCTURES

(3) Sheng

Study of recent developments in structural theory and examples of new structural resources for general architectural design. Required of majors. 3 lec. Prereq., 282.

385-386. SENIOR DESIGN

(5-5) LeBoutillier

A continuation of Arch. 256 with increased emphasis on structure, materials and equipment. 15 studio hours. Prereq., 256, 279, 282, 283.

388. PROFESSIONAL PRACTICE

(3) Taylor

Ethical and legal principles and responsibilities in professional practice. Architect's role as agent; agreements, contracts, codes, supervision, office organization. Required of majors.

395. ADVANCED DESIGN

(5) Millman

Continuation of 386. Design projects of large scale or complex problems including groups of buildings, related to urban and regional planning. 15 studio hrs.

396. BACHELOR OF ARCHITECTURE THESIS

(7) Staff

Open only to majors. Culmination of architectural design sequence. Individual or team projects of building type selected with the approval of the faculty. Research, analysis, schematic and display drawings, working drawings and specifications. 20 studio hrs. Prereq., 395.

ART

Professors Leach (director), C. Smith
 Associate Professors Driesbach, Hostetler,
 Leonard, Lin, D. Roberts, Work
 Assistant Professors Baldwin, Eldridge,
 Kortlander, Loomis, McCarthy, Moran, Olpp
 Instructors Kearney, Pettigrew,
 Ramsay
 Lecturer Mutchler

1-2. DRAWING AND DESIGN

(3-3) Staff

Emphasis on the inseparability of drawing and design. Aesthetic principles are dealt with as they arise out of specific problems rather than as separate entities. Required of freshmen art students.

3. ELEMENTARY DESIGN FOR TEACHERS

(2) Staff

Principles of design, color, lettering, and related problems. Planned for students who expect to major in elementary education. 1 lec., 3 lab.

21. ELEMENTARY SCULPTURE

(2) Staff

Theory and aesthetic application of principles of art with emphasis on volumetric organization. Required of freshmen art students.

28. FIGURE DRAWING

(2) Staff

Study of the human figure from the nude and draped model. Maximum credit in course, 6 hrs.

101. DRAWING AND DESIGN

(3) Staff

Continuation of Art 2. Required of sophomore art students. Prereq., 2 or equivalent.

105. PAINTING

(2 or 3) Staff

Introduction to basic problems and techniques. Prereq., 101 or permission.

109a. LITHOGRAPHY AND RELIEF PRINTS

(2 or 3) D. Roberts

b. INTAGLIO PRINTS

(2 or 3) Driesbach

Prereq., 101 or permission.

111. DRAWING WORKSHOP

(2) Staff

Experimentation and familiarization with traditional and contemporary drawing techniques and media. Maximum credit in course, 4 hrs. Prereq., 2 or equivalent.

113-114. LETTERING

(2 or 3) Smith

Basic relationships to typography. Application in the production of posters, book jackets, trade-marks. Experimentation with various media. 6 lab. Prereq., 2 or equivalent.

115. CERAMICS

(2 or 3) Lin

Introduction to production processes, the chemistry of glazes and simple geology of clays. 1 lec., 5 lab. Prereq., 101 or permission.

120. TEXTILE DESIGN

(3) Staff

Weaving, block printing, silk screen. Maximum credit in course, 6 hrs. 1 lec., 3 lab. Prereq., 2 or equivalent.

123. JEWELRY AND ENAMELING

(2) Ramsay

Original designs executed in silver and copper. Maximum credit in course, 6 hrs. 1 lec., 3 lab. Prereq., 2 or equivalent.

128. ADVANCED FIGURE DRAWING (3) Loomis, Mutchler
Emphasis on anatomical construction. For students who have a maximum grade of B in their second semester of 28. Maximum credit in course, 9 hrs. Prereq., permission.

130. WEAVING (3) Staff
Prereq., 2 or equivalent.

131. SCULPTURE (2 or 3) Baldwin
Modeling from the figure in various media. Maximum credit in course, 6 hrs. Prereq., 21 or permission.

137. FASHION DESIGN AND ILLUSTRATION (2) Staff
Design principles in relation to dress and to individual characteristics. Emphasis on work from the model. 1 lec., 3 lab. Prereq., 2 and 28, or with 28.

160. PRACTICAL DESIGN WORKSHOP FOR ELEMENTARY TEACHERS (1 to 3) Leonard, McCarthy
Problems in modeling, ceramics, murals, puppets, painting, and other activities related to the elementary school and philosophy of teaching. Prereq., 3.

191. DESIGN AND COMPOSITION (3) Work
Special emphasis on color and design. Planned for students who expect to major in home economics. 1 lec., 5 lab.

205. PAINTING (2) Staff
Basic techniques and practices in oil painting. Maximum credit in course, 6 hrs. Prereq., 105 or permission.

209a. LITHOGRAPHY AND RELIEF PRINTS (3) D. Roberts
b. INTAGLIO PRINTS (3) Driesbach
Maximum credit in course, 6 hrs. Prereq., 109 a or b or permission.

215. CERAMICS (3) Lin
Wheel throwing process and decorative techniques. Slide lectures and introduction to glaze testing methods. Maximum credit in course, 6 hrs. Prereq., 115 or permission.

218. WATER COLOR (3) Driesbach, Smith
Maximum credit in course, 6 hrs. Prereq., 8 hrs.

231. SCULPTURE (3) Hostetler
Modeling from life in clay and plaster. Work with terra-cotta, stone, wood, and metal. Maximum credit in course, 6 hrs. 6 lab. Prereq., 131 or equivalent.

240a. DESIGN APPLIED TO MATERIALS (2) Pettigrew
For art majors planning to teach art in the elementary and secondary fields. Maximum credit in course, 4 hrs. Prereq., 9 hrs.

240b. DESIGN APPLIED TO MATERIALS (2) Ramsay
For design majors; emphasis on materials and processes. Maximum credit in course, 4 hrs. Prereq., 101 or permission.

247-248. ADVERTISING DESIGN (3-3) Smith
Magazine, newspaper, and direct mail layout. Creative design and advertising production. 6 lab. Prereq., 113.

260. TEACHING OF ART (3) McCarthy
Prereq., 20 hrs. as specified for certification.

271-272. INTERIOR DESIGN (3-3) Moran
A brief study of architectural details and historic styles of furniture as used in modern homes. House plans, decorative treatments, and materials. 2 lec., 4 lab. Prereq., 10 hrs. or permission.

301. INDIVIDUAL PROBLEMS (1 to 3) Staff
Senior and graduate registration for individual instruction. Maximum credit in course, 12 hrs. Prereq., permission.

305. ADVANCED PAINTING (2 or 3) Staff
Maximum credit in course, 6 hrs. Prereq., 205 or equivalent.

309a. LITHOGRAPHY AND RELIEF PRINTS (3) D. Roberts
b. INTAGLIO PRINTS (3) Driesbach
Maximum credit in course, 6 hrs. Prereq., 209 or permission.

313. ADVANCED INTERIOR DESIGN (3) Moran
Research is stressed and original adaptations are made from styles of important periods. Maximum credit in course, 12 hrs. 2 lec., 4 lab. Prereq., 272 and permission.

315. ADVANCED CERAMICS (3) Lin
Advanced production methods. Construction of potter's wheel, ball mill, and electric kilns. Advanced glaze and clay testing techniques. Maximum credit in course, 6 hrs. Prereq., 215 or equivalent.

317-318. ADVANCED ADVERTISING DESIGN (3-3) Smith
Magazine, newspaper, direct mail, and display layout. Prereq., 248.

321. ADVANCED FASHION DESIGN (2) Staff
Maximum credit in course, 10 hrs. 1 lec., 3 lab. Prereq., 7 hrs., 128 and 137.

325. ADVANCED JEWELRY (2) Ramsay
Maximum credit in course, 6 hrs. 1 lec., 3 lab. Prereq., 10 hrs., including 123.

328. FIGURE PAINTING (3) Eldridge, Mutchler
Painting from the nude or costumed figure. A study of the plastic qualities in oil painting in relation to the personal objectives of the individual student. Maximum credit in course, 12 hrs. Prereq., 9 hrs., 128, permission.

331. SCULPTURE (3) Hostetler
Advanced work in modeling, carving, and direct metal. Theory and practice of casting processes. Maximum credit in course, 6 hrs. Prereq., 231 or equivalent.

351-352. INDUSTRIAL DESIGN (2 or 3 - 2 or 3) Ramsay
Design and presentation of industrial products with emphasis on function, appearance, and material. 4 lab. Maximum credit in course, 12 hrs. Prereq., 9 hrs. including 231.

365-366. ILLUSTRATION (3-3) Mutchler
Emphasis on student practice. Story and commercial illustrations using present-day techniques. Maximum credit in course, 9 hrs. Prereq., permission.

381. RESEARCH (1 to 5) Staff
Individual problems of theory and practice involving research techniques. Maximum credit in course, 5 hrs. Prereq., permission.

405. ADVANCED PAINTING

(1 to 5) Staff

Advanced work in traditional and contemporary media. Solutions to the student's problems are sought in relation to his personal objectives. Maximum credit in course, 12 hrs. Prereq., 305, permission.

409a. LITHOGRAPHY AND RELIEF PRINTS

(1 to 5) D. Roberts

b. INTAGLIO PRINTS

(1 to 5) Driesbach

Experimental work in various print media and combinations thereof. Maximum credit in course, 12 hrs. Prereq., 309 and permission.

415. CERAMICS

(1 to 5) Lin

Advanced and experimental work in bodies, glazes, and kiln constitution for all temperature ranges. Maximum credit in course, 12 hrs. Prereq., 315 or equivalent.

428. FIGURE PAINTING

(1 to 3) Eldridge, Mutchler

Advanced work in costumed figure or the nude. Maximum credit in course, 12 hrs. Prereq., 328 or equivalent.

431. SCULPTURE

(1 to 5) Hostetler

Advanced work in plaster, wood, stone, direct steel, and ceramic media. Maximum credit in course, 12 hrs. Prereq., 331, permission.

451. INDUSTRIAL DESIGN

(1 to 5) Ramsay

Advanced problems of industrial products design and presentation. Maximum credit in course, 12 hrs. Prereq., 351 and permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

496. STUDIO THESIS

(2 to 4) Staff

Prereq., permission.

ART HISTORY—See Art

ASTRONOMY

Professor Goedcke

111. ELEMENTARY ASTRONOMY

(3) Goedcke

The apparent motions of sun, moon, planets, and stars, as related to time, latitude, and longitude. The physical properties of the sun, moon, planets, comets, meteors, and meteorites. Atmosphere, temperatures, and surface conditions of other planets. Origin and evolution of the planets. Prereq., elementary physics, and mathematics through trigonometry. (1st sem., yearly.)

112. ELEMENTARY ASTRONOMY

(3) Goedcke

Methods of studying the sizes, temperatures, densities, and compositions of stars and nebulae. Distances and motions of astronomical bodies, and the physical structure of the universe. Modern theories of the origin and evolution of the stars and galaxies. Prereq., elementary physics, and mathematics through trigonometry. (2nd sem., yearly.)

115. ASTRONOMY LABORATORY

(1) Goedcke

Observational work at the telescope, with emphasis on the sun, moon, and planets. Analysis of astronomical data. Measurement of astronomical photographs and spectrograms. Prereq., 111 or with 111. (1st sem., yearly.)

116. ASTRONOMY LABORATORY

(1) Goedcke

Observational work at the telescope, with emphasis on stars, nebulae, and galaxies. Analysis of astronomical data. Spectroscopic analysis of stars. Prereq., 112 or with 112. (2nd sem., yearly.)

135. ELEMENTS OF NAVIGATION

(2) Goedcke

Basic navigational astromony; the use of the sextant; the Nautical Almanac; the Line of Position Method as used in air and surface navigation. Prereq. Math 15. (Given upon sufficient demand.)

350. STUDIES IN ASTRONOMY

(1 to 4) Goedcke

Prereq., 111, 112, and permission.

AVIATION

Chief Instructor Vaughan (director)

Instructors Chesser, Fuller, Ismert, Thomas

110. PRIMARY GROUND INSTRUCTION

(2) Vaughan, staff

Ground instruction and practice in the following: aerial navigation, meterology, civil air regulations, radio and aircraft maintenance. Meets all minimum requirements of the FAA to prepare for the private pilot written examination. 1 lec., 2 lab.

111. PRIMARY FLIGHT INSTRUCTION

(2) Vaughan, staff

Offers a minimum of 35 hours of actual flight training plus 1½ hours allotted at the end of the course to accomplish the FAA private pilot flight test. In addition, there will be approximately 10 hours of individual discussion. Successful completion of this course may terminate with a private pilot's license. 10 lec., 35 lab. Prereq., 110 or with 110, permission. Course fee, \$350.

112. SECONDARY FLIGHT INSTRUCTION

(2) Vaughan, staff

Dual flight instruction and solo practice designed to increase the proficiency of private pilots including cross country, night flying, and instruments. A total of 40 flight hours including approximately 20 hours dual and 20 hours solo. 10 lec., 40 lab. Prereq., 111 or private pilot's license, permission. Course fee, \$385.

BIOLOGY—See General Studies

BOTANY

Associate Professors Bickle, Gambill (chairman)

Vermillion, Wallace, Wistendahl

Assistant Professors Cohn, Graffius, Larson

The major requirement for the A.B. degree is a minimum of 24 hours in departmental courses, and for the B.S. degree 30 hours. The major program must include Bot. 3-4, 106 or 117, 123 or 173, 203, 205, 232, and 391 or 392, with at least six hours in courses numbered above 300. Biol. 1 and 2 may be substituted for Bot. 3. Chem. 3-4-99 are required of all majors. Strongly recommended for majors are one course in college physics (Physics 5 or 6), and mathematics through college algebra and trigonometry (Math. 9 and 14). For all prospective graduate students organic chemistry (Chem. 113) is essential.

3-4. GENERAL BOTANY

(4-4) Staff

The structure and functions of plants; their life cycles, classification and heredity; a survey of the plant kingdom; fundamental inter-relationships of plants and animals, including man. 3 lec., 2 lab. Credit allowed for only one semester if Biol. 1-2 have been completed. (Each sem.)

104. READINGS IN BOTANY

(1) Staff

Assigned readings in botanical literature, historical or current, designed to broaden the background in the plant sciences, and to bring acquaintance with recent advances. Hours arranged. Prereq., 4 or Biol. 2. (Yearly.)

106. LOCAL FLORA

(3) Gambill

Collection, identification and classification of flowering plants with emphasis on the native flora, with both laboratory and field studies. 2 lec., 2 lab. 2 Sat. field trips. Prereq., 4 or Biol. 2. (2nd sem., yearly.)

108. VEGETATION OF NORTH AMERICA

(2) Wistendahl

An illustrated lecture course considering extensive plant formations with relationship to climate, soil, geographic formations, and the influence of man. 2 lec. Prereq., 4 or Biol. 2. (2nd sem., 1964-65.)

117. DENDROLOGY

(3) Gambill

Collection, identification, and classification of native and introduced woody plants in summer and winter conditions. 2 lec., 2 lab. 2 Sat. field trips. Prereq., 4 or Biol. 2. (1st sem., yearly.)

123. INTRODUCTION TO THE FUNGI

(3) Vermillion

A general survey of the fungi stressing both taxonomy and morphology through field and laboratory studies. 2 lec., 2 lab. Prereq., 4 or Biol. 2. (1st sem., yearly.)

173. FUNDAMENTAL PLANT MORPHOLOGY

(3) Graffius

Comparative studies of algae, lichens, and bryophytes with special emphasis upon structure and life cycles. 2 lec., 2 lab. Prereq., 4 or Biol. 2. (1st sem., yearly.)

203. PLANT ECOLOGY

(4) Wistendahl

The study of natural plant communities with respect to environmental conditions. 2 lec., 4 lab. or field work. Prereq., 117 or 205. (1st sem., yearly.)

205. ELEMENTARY PLANT PHYSIOLOGY

(4) Larson, Wallace

Introduction to the basic physics and chemistry of photosynthesis, respiration, and digestion in plants; uptake, movement and functions of mineral nutrients; translocation and transpiration. 2 lec., 4 lab. Prereq., 4; 1 yr. college chemistry. (1st sem., yearly.)

211. PLANT ANATOMY

(3) Bickle

Comparative structure of vascular plants. 2 lec., 2 lab. Prereq., 173. (1st sem., 1965-66.)

212. PLANT MICROTECHNIQUE

(3) Cohn

Principles and methods of preparing plant tissues for microscopic study. 2 lec., 2 lab. Prereq., 173. (1st sem., 1965-66.)

221. PLANT PATHOLOGY

(4) Vermillion

The nature, causes, economic importance and control of plant diseases. 2 lec., 4 lab. Prereq., 123 or 4 and Agr. 201 or 202. (1st sem., 1964-65.)

232. CYTOLOGY

(4) Cohn

Gross and fine structure of cells; mitosis, meiosis; cytoplasmic components and their behavior; molecular organization and morphology of chromosomes. 2 lec., 4 lab. Prereq., 4 or Zool. 4; 1 yr. college chemistry. (2nd sem., yearly.)

242. FRESH-WATER ALGAE

(3) Graffius

Classification, structure, relationships and life histories of fresh-water algae, with emphasis on the identification of common or representative genera. 2 lec., 2 lab. Prereq., 4 or Zool. 4. (2nd sem., yearly.)

304. FOREST ECOLOGY

(4) Wistendahl

The forest environment, and methods of studying the growth and development of trees and forest stands. 2 lec., 4 lab. Prereq., 203. (2nd sem., 1965-66.)

307. ADVANCED PLANT PHYSIOLOGY (4) Wallace
Advanced study of plant processes with special emphasis on techniques employed in research. 2 lec., 4 lab. Prereq., 205, and a course in organic chemistry. (2nd sem., 1964-65.)

308. ADVANCED GENETICS (Same as Zool. 308.) (3) Cohn, McQuate
Gene action and fine structure; biochemical genetics; microbial and radiation genetics; cytoplasmic inheritance. Prereq., 232 or Zool. 107, organic chemistry. (2nd sem., 1964-65.)

310. RADIATION BIOLOGY (Same as Zool. 310.) (4) Larson, Harclerode
A study of the techniques of the use, detection and interpretation of radioactive tracers in biological problems and the effects of some radiations on living tissue. 2 lec., 4 lab. Prereq., in Botany: 9 hrs. beyond 4, incl. 205; in Zoology: 8 hrs. beyond 4, incl. 305. (2nd sem., 1965-66.)

311. PALEOBOTANY (4) Bickle
Plant fossils throughout geological time. 2 lec., 4 lab. 2 Sat. field trips. Prereq., 117 or 211. (1st sem., 1964-65.)

314. DEVELOPMENTAL PLANT MORPHOLOGY (3) Bickle
Development of ferns and seed plants with emphasis on embryology and organogenesis. 2 lec., 2 lab. Prereq., 173 or 211. (2nd sem., 1964-65.)

315. SYSTEMATIC BOTANY (4) Gambill
Systematics, nomenclature, and phylogeny of angiosperms through laboratory, field, and herbarium studies, with emphasis on the fall flora. 2 lec., 4 lab. 2 Sat. field trips. Prereq., 106. (1st sem., 1964-65.)

316. TAXONOMY OF THE BRYOPHYTES (4) Gambill
Identification, nomenclature, and classification of the bryophytes through laboratory and field studies. 2 lec., 4 lab. 2 Sat. field trips. Prereq., 106, 173. (2nd sem., 1965-66.)

318. WOOD TECHNOLOGY (3) Bickle
Methods of identification of woods, their uses and products, with emphasis on comparative structure. 1 lec., 4 lab. 2 all-day field trips. Prereq., 117 or 211. (2nd sem., 1965-66.)

324. FOREST PATHOLOGY (3) Vermillion
Diseases of forest and shade tree species, their economic importance, prevention and control. Prereq., 117, 123 or 221. 2 lec., 2 lab. (2nd sem., 1964-65.)

325. MYCOLOGY (3) Vermillion
A study of specific groups of fungi, with emphasis upon taxonomy and physiology, including some reference to their economic importance. 2 lec., 2 lab. Prereq., 123 and 1 yr. college chemistry. (2nd sem., 1965-66.)

327. CYTOGENETICS (3) Cohn
Genetics and cytology in terms of chromosomes and their behavior; polyploidy; chromosomal aberrations; cancerogenesis; karyotype evolution; cytotaxonomy. Prereq., 232, Zool. 107. (1st sem., 1965-66.)

330. PHYTOGEOGRAPHY (3) Wistendahl
Theories and principles of plant distribution as related to evolution, migration, and speciation of plants. Prereq., 9 hrs. beyond 4, incl., plant taxonomy or ecology. (1st sem., 1965-66.)

343. BOTANICAL STUDIES (2 to 4 a semester in any of the following)

Semi-independent studies supervised by the instructor. May include interdepartmental projects. Maximum credit in any listed area, 6 hrs.; total for all areas, 9 hrs. Prereq., 12 hrs., including one listed course in that area, and permission.

- a. **Plant Morphology** — studies of the fundamental plant form, structure, life cycles, and reproduction. *Blickle*.
- b. **Plant Anatomy** — studies in the detailed structure of cells and tissues of root, stem, leaf, flower, fruit, and seed. *Blickle*.
- c. **Plant Physiology** — studies in the primary functions, processes, and growth phenomena of plants. *Larson, Wallace*.
- d. **Plant Ecology** — studies in the interrelations of plants with one another and the environment. *Wistendahl*.
- e. **Plant Taxonomy** — studies in the identification, nomenclature, classification and phylogeny of plants, based on the native flora. *Gambill*.
- f. **Plant Pathology** — studies in the nature, prevention, cause, and control of plant diseases. *Vermillion*.
- g. **Paleobotany** — studies in the organ histology, morphology and classification of vascular plant fossils. *Blickle*.
- h. **Mycology** — advanced studies of nonpathogenic macrofungi and microfungi. *Vermillion*.
- i. **Cytology and Cytogenetics** — studies of cell structure and functions; chromosome structure, composition, and behavior. *Cohn*.
- j. **Phycology** — studies in the identification, classification, morphology, life cycles and ecology of algae. *Graffius*.

350. BOTANICAL LITERATURE

(2) Staff

Introduction to the professional journals in the various branches of plant science; to significant reference works, including encyclopedic, biographical and bibliographical sources; and to special publications such as those emanating from symposia and congresses. Prereq., 20 hrs. (Yearly.)

360. PHYCOLOGY

(4) Graffius

Classification, life histories, morphology, physiology and ecology of fresh-water and marine algae. 3 lec., 3 lab. Prereq., 205, 242; 173 or similar introductory course in study of algae is recommended. (1st sem., 1965-66.)

391, 392. SEMINAR IN BOTANY

(1, 1) Staff

Presentation of papers based on individual research or on readings in current botanical literature. Required of all senior majors and graduate students. Maximum credit in course, 2 hrs. Prereq., 15 hrs., permission. (Each sem.)

481. RESEARCH PROBLEMS

(1 to 4) Staff

Independent research leading to the master's thesis. Maximum credit in course, 6 hrs. Prereq., 18 hrs., permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

BUSINESS LAW

Associate Professor Howard
Assistant Professor Kloss (chairman)

255-256. BUSINESS LAW

(3-3) Howard, Kloss

The principles of law involved in contracts, agency, sales, negotiable instruments, partnerships, property, bailments, and corporations. Prereq., junior or senior rank.

342. LAW OF REAL ESTATE (2 or 3 as scheduled) Howard, Kloss
Deeds, mortgages, leases, and other interests in real property, and the relationships between landlord and tenant. Prereq., 256 or permission.

362. LAW OF ESTATES AND TRUSTS (2 or 3 as scheduled) Howard, Kloss
The nature, creation, administration, and disposition of estates and trusts along with the principles of law pertaining thereto, and a consideration of the problems involved in planning an effective and economical gift distribution of property interests. Prereq., 256.

375. GOVERNMENT AND BUSINESS (3) Howard
A study of statutes and court decisions by which government controls, regulates, and aids business under the commerce clause, the police power, and the anti-trust laws. Prereq., 255 or permission.

381. RESEARCH IN LAW (1 to 8) Staff
Prereq., 18 hrs. business administration including 256 and permission.

CHEMISTRY Professors Clippinger, Day, Eblin, Huntsman (chairman)
Ingham, Kline
Associate Professors Brooks, Sympson
Assistant Professors Clearfield, McKay, Paudler, Tong,
Westenbarger, Winkler

A student who completes the requirements for the B.S. degree with a major in chemistry is eligible for professional status in the American Chemical Society in the minimum period of two years of professional experience after graduation. Completion of the minimum requirements for the A.B. degree with a major in chemistry does not qualify a student for certification to the society.

The major requirement for the B.S. degree is a minimum of 40 hours including Chemistry 3-4-99; 109; 201-202; 203-204; 305; 313-314; 315; 333; and three additional hours above 300. Extra-departmental requirements include Mathematics 102 and Physics 6 or 114, which should be completed by the end of the second year.

The major requirement for the A.B. degree is a minimum of 26 hours including Chemistry 3-4-99; 107 or 109; 113 or 201-102; 117 or 203; 311 or 313-314. A full year's work is required in at least one of the following fields: Quantitative Analysis (109, 305); Organic (201-202); Physical (313-314). Six hours in chemistry courses above 300 are required.

Students having foreign language requirements should take German, including 103. Those anticipating graduate study should obtain a reading knowledge of German and Russian, or German and French.

3-4. GENERAL CHEMISTRY (4-2) Staff
3 lec., 3 lab. 1st sem.; 2 lec., no lab. 2nd sem. Concurrent registration in 99 required in 2nd sem. Prereq., high school algebra. (Each sem.)

99. QUALITATIVE ANALYSIS (2) Staff
The separation and identification of cations and anions by methods illustrating the principles of chemical equilibrium and solubility relations. 1 lec., 3 lab. Prereq., 3, with 4. (Each sem.)

107. QUANTITATIVE ANALYSIS (4) Clippinger, McKay, Sympson
A course in analytical chemistry for students not majoring in chemistry. 2 lec., 6 lab. Prereq., 4, 99. (Each sem.)

109. QUANTITATIVE ANALYSIS (4) Clippinger, McKay, Sympson
A course in the fundamentals of gravimetric and volumetric analysis for chemistry and chemical engineering majors. Prereq., 4, 99. (1st sem., yearly.)

113. ORGANIC CHEMISTRY (4) Ingham, Paudler
A course in organic chemistry for students who are not B.S. majors in chemistry. Prereq., 4, 99. (Yearly.)

117. ORGANIC CHEMISTRY LABORATORY (2) Ingham, Paudler
A course in organic preparations and reactions to accompany 113, or 201-202 as approved. 6 lab. Prereq., 113 or with 113, or 202 or with 202. (Yearly.)

201-202. ORGANIC CHEMISTRY (3-3) Ingham, Winkler
A comprehensive course for chemistry majors which integrates current concepts with a sound classical background. Prereq., 4, 99. (Yearly.)

203-204. ORGANIC CHEMISTRY LABORATORY (2-2) Ingham, Winkler
Designed to accompany 201-202. 6 lab. Prereq., 201 or with 201 for 203; 202 and 203 or 203 with 202 for 204. (Yearly.)

303. ADVANCED QUANTITATIVE ANALYSIS (3) McKay, Sympson
A lecture course in classical analytical chemistry for entering graduate students needing further training in analytical chemistry. Prereq., 314. (Yearly.)

305. INSTRUMENTAL ANALYSIS (4) McKay, Sympson
Methods of instrumental analysis: potentiometry, polarography, coulometry, emission and absorption spectroscopy, X-ray spectra, X-ray diffraction, and chromatography. 2 lec., 6 lab. Prereq., 314. (Each sem.)

311. PHYSICAL CHEMISTRY (3) Clearfield, Eblin
For students in pre-medicine, comprehensive science, and A.B. chemistry majors. Recommended as a graduate minor for fields other than chemistry. Prereq., 12 hrs. chem., 5 hrs. math. (1st sem., yearly.)

313-314. PHYSICAL CHEMISTRY (3-3) Brooks, Day, Westenbarger
No credit for graduate students in chemistry. Prereq., 107 or 109, Math. 102, Phys. 6 or 114. (Yearly.)

315-316. PHYSICAL CHEMISTRY LABORATORY (2-2) Eblin
6 lab. Prereq., 311 or 313 or with 311 or 313. (Each sem.)

317. CHEMICAL THERMODYNAMICS (3) Day, Westenbarger
Prereq., 314. (1st sem., yearly.)

321. QUALITATIVE ORGANIC ANALYSIS (4) Ingham, Winkler
The separation and identification of organic compounds. 2 lec., 6 lab. Prereq., 204. (2nd sem., yearly.)

323. ORGANIC CHEMISTRY SURVEY (3) Huntsman, Paudler
Basic reactions and concepts of organic chemistry. Not open to undergraduates. (1st sem., yearly.)

333. INORGANIC CHEMISTRY (3) Clearfield, Kline
Inorganic chemical reactions and structure. Prereq., 16 hrs. (1st sem., yearly.)

335. RADIOCHEMISTRY (3) Tong
An introductory course in the application of isotopes to problems in chemistry, and the chemical effects of the radiation and mass of isotopes. Prereq., 16 hrs. (Yearly.)

336. RADIOCHEMISTRY LABORATORY

(2 or 3) Tong

A course in the techniques of handling, detection, and determination of radioactive material and the application of radioactive tracers to the solution of problems in chemistry. 3 lab. Prereq., 335. (Yearly.)

350. CHEMICAL LITERATURE

(2) Staff

Introduction to chemical literature in journals, handbooks, monographs, and patents. Particular emphasis will be given to selected problems in finding, assembling, and using chemical data. Prereq., 24 hrs.; reading knowledge of German. (Yearly.)

351. SPECIAL PROBLEMS IN CHEMISTRY

(2 or 3) Staff

Minor research with laboratory and library work. Maximum credit in course, 6 hrs. Prereq., 24 hrs. with a B average. (Each sem.)

405. ELECTROCHEMICAL METHODS OF ANALYSIS

(3) Sympson

A course dealing with the fundamentals and applications of potentiometric titrations, conductometric titrations, coulometry, voltammetry and amperometric titrations, and chronopotentiometry. Prereq., 305.

406. OPTICAL METHODS OF ANALYSIS

(3) McKay, Sympson

Application of emission spectroscopy, absorption spectroscopy, X-rays, fluorophotometry, nephelometry, and turbidimetry to chemical analysis. Prereq., 305.

408. MODERN TECHNIQUES OF CHEMICAL SEPARATIONS

(3) McKay

The fundamentals and applications of ion exchange, chromatography, electrodepositions, electrophoresis, and extractions. Prereq., 303.

410. SPECIAL TOPICS IN ANALYTICAL CHEMISTRY

(2 or 3) Staff

Topics of special interest in analytical chemistry. Electronics, nuclear magnetic resonance, solvents, and organic reagents. Prereq., permission.

418. CHEMICAL KINETICS

(3) Day, Tong

Insight into the mechanisms by which chemical reactions occur, and the energies involved, through interpretation of data on rates of reactions. Prereq., 314. (2nd sem., yearly.)

425. QUANTUM CHEMISTRY

(3) Brooks, Westenbarger

The fundamentals of quantum theory and their application to some simple systems of chemical interest. Prereq., 314.

427. MOLECULAR STRUCTURE

(3) Brooks

Prereq., 317.

429. STATISTICAL THERMODYNAMICS

(3) Day

Prereq., 317.

434. ADVANCED INORGANIC CHEMISTRY

(3) Clearfield, Kline, Tong

Modern theoretical inorganic chemistry. Prereq., 333. (2nd sem., yearly.)

437. SOLUTIONS

(3) Tong

Selected topics in solution thermodynamics and kinetics, such as stoichiometry, theories of electrolytes, electrochemistry, irreversible processes, kinetics of induced reactions, acid-base catalysis, photochemistry, and heterogeneous reactions. Prereq., 314.

439. LESS FAMILIAR ELEMENTS

(3) Kline

The chemistry of lanthanide and actinide elements, other less familiar elements, and less familiar oxidation states of common elements. Prereq., 333.

441. COORDINATION COMPOUNDS (3) Kline, Tong
The classification, nomenclature, synthesis, structure, equilibrium and kinetics of substitution and isomerization reactions of coordination compounds, and the nature and energetics of the coordination bond. Prereq., 333.

445-446. ADVANCED ORGANIC CHEMISTRY (3-3) Huntsman, Paudler
Modern aspects of organic chemistry with emphasis on the relationships between structure and reactivity. Prereq., 202. (Yearly.)

451, 452. SEMINAR IN CHEMISTRY (1,1) Staff
Required of all graduate students in chemistry each semester in residence.

469, 470. STRUCTURE DETERMINATION BY SPECTROSCOPIC METHODS (2, 2) Staff
Modern methods for determining molecular structure are considered. Topics included are nuclear magnetic resonance, electron paramagnetic resonance, infrared, Raman, ultraviolet, and visible spectroscopy.

471. PHYSICAL ORGANIC CHEMISTRY (3) Ingham, Winkler
The application of modern concepts to the mechanisms of organic reactions. Both ionic and free-radical reactions are discussed. The impact of quantum mechanics on theoretical organic chemistry is emphasized. Prereq., 446.

474. ALKALOIDS (2) Paudler
General principles of isolation, structure determination, and biogenesis of alkaloids and related substances. Prereq., 446.

475. TERPENES (3) Huntsman
The chemistry of terpenes and related compounds, with particular emphasis on classical and modern methods of proving structure. Prereq., 446.

477. HETEROCYCLIC COMPOUNDS (2 or 3) Ingham
Principal heterocyclic systems, including some related natural products. Prereq., 446.

479. ADVANCED TOPICS (2 or 3) Staff
Special topics as required for advanced students. Prereq., permission.

480. RESEARCH TECHNIQUES (3) Staff
Lectures and laboratory practice in the skills of research, such as glass-blowing, vacuum work, crystallization, and distillation. Prereq., permission.

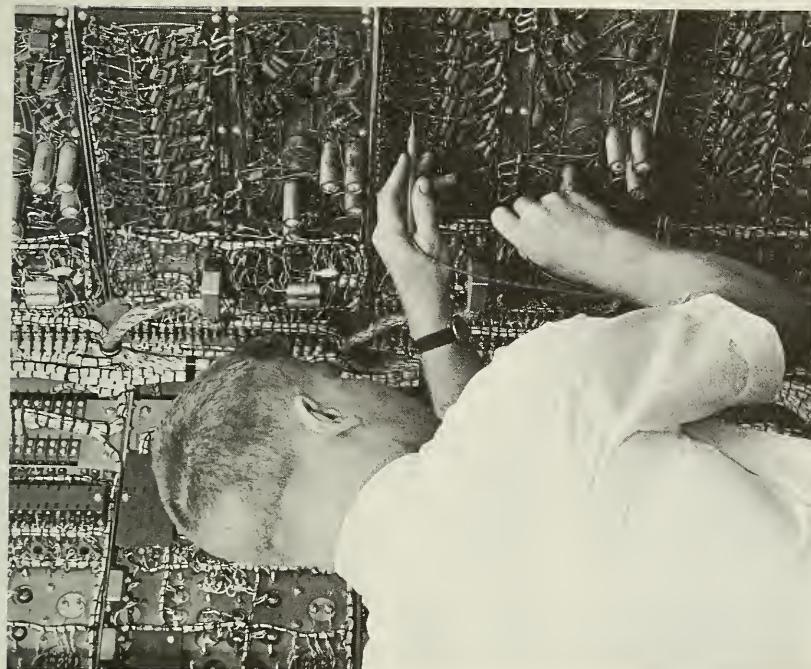
481. RESEARCH IN CHEMISTRY (As recommended by dept.) Staff
Prereq., 36 hrs. (Yearly).

495. THESIS OR DISSERTATION (As recommended by dept.) Staff
Prereq., permission.

CLASSICAL LANGUAGES

Professor Murphy (chairman)
Assistant Professor Urdahl
Instructor Hultgren

Two types of courses are included: (1) courses in the Greek and Latin languages in the original; (2) courses requiring no knowledge of the original languages.



A Science and Engineering Research Center is scheduled for completion in 1965



Members of our electrical engineering department were commended by the National Aeronautical and Space Administration for their contributions to the Saturn Missile Project through research in "leak detection in space vehicles."



"For his quiet yet productive perseverance as a research physicist; for his sensitivity as a teacher and counselor; and for his distinct qualities as a meticulous scholar, . . ."
Professor John E. Edwards received Ohio's Distinguished Professor Award.

The major requirement in Latin for the A.B. degree is a minimum of 24 hours above courses 1-2, exclusive of courses in class (2) above. Majors in Latin should include courses 331 and 333.

A major in Greek is not offered, but Latin majors are encouraged to take as much Greek as possible. Students who plan to do graduate work in Latin should plan a dual major in Greek and Latin.

GREEK

1-2. BEGINNING GREEK (Completion after 2 yrs. h. s. Greek adds 8 hrs. to graduation requirement.) (Yearly.) (4-4) Hultgren, Urdahl

27. GREEK WORDS IN ENGLISH (2) Murphy

Terms of Greek origin which provide a major part of the technical vocabulary in many cultural and professional fields. No knowledge of Greek required. No credit toward meeting the foreign language requirement. (Most semesters.)

101-102. GREEK PROSE AND POETRY (3-3) Murphy, Urdahl

Review of language principles. Readings from Homer, Plato, Xenophon, and the New Testament. Prereq., 2. (Yearly.)

309. ADVANCED GREEK READINGS (1 to 3) Hultgren, Urdahl

Selections from the poets, dramatists, orators, and philosophers. Maximum credit in course, 9 hrs. Prereq., 12 hrs. (Yearly.)

LATIN

1-2. BEGINNING LATIN (Completion after 2 yrs. h. s. Latin adds 8 hrs. to graduation requirement.) (Yearly.) (4-4) Urdahl

101. LATIN REVIEW AND READING (4) Murphy

For those who need a thorough review. Prereq., 2 or 2 yrs. high school Latin. (1st sem., yearly.)

102. VERGIL (4) Hultgren, Murphy

Readings from *Aeneid*, Books I-VI. Prereq., 101 or 3 yrs. high school Latin. (2nd sem., yearly.)

251. FAMILIAR ESSAYS (3) Urdahl

Cicero's *De Amicitia*, *De Senectute*, *Somnium Scipionis*. Review of essential Latin. Prereq., 102, 4 yrs. high school Latin, or 3 yrs. high school Latin and permission. (1st sem., yearly.)

252. HORACE AND TERENCE (3) Urdahl

A comedy by Terence and selections from Horace's *Odes* and *Epodes*. Prereq., 102 or 4 yrs. high school Latin. (2nd sem., yearly.)

303. PLINY AND MARTIAL (3) Murphy

Letters and epigrams revealing the human side of Roman life and society from Nero to Trajan. Prereq., 252. (1st sem., 1965-66.)

304. LIVY AND OVID (3) Urdahl

The legendary history of early Rome and mythology in verse. Prereq., 252.

311. CICERO (LETTERS) AND CATULLUS (POEMS) (3) Hultgren

Prereq., 252.

318. READINGS IN LATIN LITERATURE (1 to 4) Hultgren, Murphy

Selections from a wide range of Latin literature. Maximum credit in course, 10 hrs. Prereq., 252. (Both semesters, 1964-65.)

331. THE LIFE OF THE ROMANS (2) Hultgren
 The family, the house, transportation, public amusements, and related features. Illustrations from the archaeological evidence. Prereq., 8 hrs. or 8 hrs. history and antiquities. No knowledge of Latin required. (Given upon sufficient demand.)

333. ADVANCED LATIN SYNTAX (2) Murphy
 Prereq., 252. (Given upon sufficient demand.)

340. SPECIAL WORK IN LATIN (1 to 4) Hultgren, Murphy
 Specialized work in selected phases of Classical study. Maximum credit in course, 8 hrs. Prereq., 252.

DRAMATIC ART

Professor Walker

Associate Professor Lane

Assistant Professors Conover, Hahne

Instructors Nichol, Winters

Visiting Designer Bay

10. INTRODUCTION TO THEATRE (2) Lane, staff
 The role of the theatre in our culture and the practical application, interrelationships, and over-all unity of various art forms in play production.

21. ELEMENTS OF STAGE SCENERY (3) Winters
 Basic principles of scenic construction; types and utilization of stage scenery. 1 lec., 4 lab.

99. MOVEMENT AND PANTOMIME (2) Hahne
 Movement from the viewpoint of dance and drama; body mechanics; dynamics of movement in space and time; experimental application of discovered techniques to social and dramatic situations.

105. PLAY PRODUCTION (3) Hahne
 Choice of play, casting, direction, and techniques of production. Laboratory experience. Not open to majors in theatre.

107. VOICE TRAINING (2) Hahne
 Advanced voice training for majors in theatre. Prereq., Speech 7 and permission.

123. ELEMENTS OF STAGE LIGHTING (3) Winters
 Stage-lighting units, control equipment, and color media, and their application to play production. 1 lec., 4 lab.

147. THEATRE LABORATORY (1 or 2) Winters
 Costuming, make-up and technical work connected with the productions of the University Theatre. Maximum credit in course, 6 hrs.

148. COSTUME AND MAKEUP (2) Nichol
 Fundamentals of design, construction and adaptation of costumes for the stage; basic principles and techniques of stage makeup.

207. HISTORIC COSTUMING FOR THE STAGE (2) Nichol
 A survey of costuming from the Egyptian period to the 1920's and its adaptation to the stage. Prereq., 148 or permission.

230. DEVELOPMENT OF DRAMA

(3) Walker

A study of the development of drama in the Western world in theory and practice from classical Greece through the Renaissance. 3 lec. Prereq., F.A. 179 or Eng. 225 or equiv.

231. DEVELOPMENT OF DRAMA

(3) Walker

Drama from the middle of the seventeenth century to the end of the nineteenth century. 3 lec. Prereq., F.A. 179 or Eng. 225 or equiv.

250. PLAY DIRECTION

(3) Lane

Preparation of plays for public performance; analysis of the script, methods of casting and rehearsal. Capable students direct one-act plays presented by the University Playshop. 1 lec., 4 lab. Prereq., 12 hrs. including 299 and permission.

260. TEACHING OF HIGH SCHOOL DRAMATICS AND SPEECH

(3) Andersch

See Speech 260.

299. PRINCIPLES OF ACTING

(3) Hahne

Elementary techniques of stage action and practice in the reading, cutting, and acting of dramatic literature. 1 lec., 4 lab. Prereq., 99 and Speech 34.

304. ADVANCED ACTING

(3) Lane

Creation of roles in plays of different types, styles, and periods. Study of dialects. Laboratory experience in rehearsal and performance. 1 lec., 4 lab. Prereq., 299 and permission.

306. ADVANCED STAGECRAFT

(3) Winters

Theories and problems involved in scenic decor. 1 lec., 4 lab. Prereq., 12 hrs., including 21 and 123.

321. HISTORY OF DRAMATIC CRITICISM

(3) Conover, Walker

The principles of dramatic criticism from Aristotle to the present. Prereq., 12 hrs. or equivalent advanced courses and permission.

322. DRAMATIC COMPOSITION

(3) Walker

Theory of playwriting. Practical experience in the writing and rewriting of plays. Scripts of sufficient merit are produced by the University Playshop. Prereq., 6 hrs. and 12 hrs. Eng. and/or journ.

323. SCENE DESIGN AND PAINTING

(3) Bay, Winters

Theories of the designing and painting of stage settings; effect of stage lighting on scenery and make-up; practical experience. 1 lec., 4 lab. Prereq., 21, 123.

324. CONTEMPORARY THEATRE

(3) Lane

Trends in twentieth century theatre; the spread of the "new stagecraft" and the growth of realism; developments in non-realistic drama and theatre. 3 lec. Prereq., F.A. 179 and 12 hrs. Dram. A. or equiv.

347. WORKSHOP IN SUMMER THEATRE

(6 to 8) Lane, Winters

Not open for graduate credit. Maximum credit in course, 16 hrs. Prereq., permission.

351. ADVANCED PLAY DIRECTION

(3) Conover

Prereq., 250.

353. MASTERS OF THE THEATRE

(3) Lane

Techniques for the production of historical plays. Preparation of the director's manuscript and actual supervision of production. Open only to majors. Prereq., 351, F.A. 180, and permission.

359. ACTING FOR LYRIC DRAMA (3) Conover
 Advanced techniques of acting in relation to the form and content of lyric drama. Special emphasis on the Elizabethan, with some attention to Greek and twentieth century authors. 1 lec., 4 lab. Prereq., 304; Speech 34; Eng. 223.

377. THEATRICAL COSTUME DESIGN (3) Nichol
 Costume design for the theatre; techniques of rendering costume plates and elements of pattern drafting for period costume. 3 lec., 2 lab. Prereq., 207 or permission.

381. RESEARCH (2 to 4) Staff
 Maximum credit, 6 hrs. Not open to graduate students. Prereq., senior standing and permission.

422. RENAISSANCE THEATRE (3) Conover
 The development of the theatre from the rise of humanism to the establishment of the Baroque style.

423. BAROQUE THEATRE (3) Walker
 Detailed study of the Baroque Period with special attention to the theatre arts as expressions of the aesthetic, social, and political philosophies of the times.

424. NINETEENTH CENTURY THEATRE (3) Walker
 A study of the major developments of the nineteenth century European theatre in relation to the aesthetic and social forces of the times.

435. ADVANCED LIGHTING (3) Winters
 Lighting design, history of stage lighting. Advanced technical consideration of instruments, control equipment and color media. Production experience. 2 lec., 2 lab. Prereq., 323, or with 323 or equivalent.

447. ADVANCED PROBLEMS IN DRAMATIC PRODUCTION (3 to 6) Lane, Winters
 Structure, management, direction, and finance of theatre programs with special reference to the summer theatre which serves as a laboratory for observation and participation. Summer sessions only. Maximum credit in course, 6 hrs. Prereq., permission.

480. SEMINAR IN TECHNICAL THEATRE OR COSTUMING (3 or 4) Staff
 Prereq., 18 hrs. including 323 or equivalent.

481. SEMINAR IN DIRECTING OR THEATRE MANAGEMENT (3 or 4) Staff
 Prereq., 18 hrs. including 351 or equivalent.

494. RESEARCH (1 to 12) Staff
 Individual, guided research on special problems. Projects must be approved prior to registration. Prereq., permission.

495. THESIS OR DISSERTATION (As recommended by dept.) Staff
 Prereq., permission.

Suggested courses:

See RADIO-TELEVISION AND SPEECH AND SPEECH AND HEARING THERAPY under COURSES OF INSTRUCTION. F.A. 179-180—History of the Visual Theatre, P.E. 7—Beginning Modern Dance, P.E. 8—Intermediate Modern Dance, P.E. 37—Fencing, P.E. 115, 116—Advanced Modern Dance, and courses in Design or Painting and Drawing (see Art).

ECONOMICS

Professors Gubitz, Hellebrandt, Levinson
(chairman), Picard
Associate Professors Charle, Crewson, Darcy
Assistant Professors Bogor, Darnton, Eilenstine,
Ralph Gray, Hall, Walker
Part-time Instructor Sally H. Gray

A student may secure an A.B. degree with a major in economics. This program is designed to give a broad cultural background for those who plan careers in such areas as business, government, or law. This program also provides the basis for those who plan to attend graduate school to prepare for teaching and economics research.

The major requirement in economics is 24 semester hours including Economics 11-12 (or 101-102) and 333. In addition, one course in statistics is recommended, and this will be determined in consultation with the adviser.

Suggested electives should be chosen from government, history, philosophy, psychology, sociology, and other social sciences with the approval of the adviser.

11-12. PRINCIPLES OF ECONOMICS (3-3) Staff

The basic theory and economic analysis of prices, markets, production, wages, interest, rent, and profits. The second half of the course is concerned with the economic problems and economic institutions of society. Among the problems analyzed are labor unions, money and banking, taxation, public utilities, international trade, business cycles, and agriculture. The first half is designed to serve as a terminal course for students desiring one semester of work in economics. Not open to juniors and seniors.

101-102. PRINCIPLES OF ECONOMICS (3-3) Staff

Description same as for 11-12. Not open to freshmen nor to those who have had 11 and 12.

110. MONEY AND BANKING (3) Staff

(Same as Fin. 110.) Money and credit with emphasis on credit expansion and contraction by the Federal Reserve System and commercial banks. Study of monetary policies of the Federal Reserve and Treasury. Commercial bank lending and investing. Not open to students enrolled in the College of Business Administration. Prereq., Ec. 12 or 102 or permission.

131. ECONOMIC HISTORY OF THE UNITED STATES (3) Eilenstine

A study of the economic factors in the development of the United States including the historical growth of economic institutions such as banking, manufacturing, labor unions, and agriculture, from colonial times to the present. Prereq., 12 or 102.

132. ECONOMIC HISTORY OF MODERN EUROPE (3) Eilenstine

Economic factors in the development of Western Europe from the decline of medievalism to present-day neo-mercantilism. The interrelationships between economic institutions and imperialism, wars, and similar developments are considered. Prereq., 12 or 102.

151. ECONOMIC PROBLEMS AND PUBLIC POLICY (3) Ralph Gray

Application of economic theory to current economic problems with emphasis upon the public-policy implications. Examples of topics considered are: depressed areas, technological unemployment, economic growth, inflation, and agricultural instability. Prereq., 12 or 102 or permission.

304. REGIONAL ANALYSIS (3) Darnton
Theories of regional and interregional relationships and policies for regional development. Consideration of economic, geographic, demographic, political, and social factors. Prereq., 12 or 102.

305. ECONOMICS OF TRANSPORTATION (2 or 3 as scheduled) Staff
Prereq., 12 or 102.

309. PUBLIC UTILITIES (2 or 3 as scheduled) Bogar, Levinson
The economic basis of the public utility concept and its relation to business organization. The nature, scope, development, legal organization, and regulation of public utilities. Prereq., 12 or 102.

315. PUBLIC FINANCE (3) Hall
Analysis of spending and taxing functions of federal, state, and local governments. The growing importance of fiscal policy in determining level of employment. The economic effects of the various taxes of federal, state, and local governments. Prereq., 12 or 102.

320. ORGANIZATION AND STRUCTURE OF INDUSTRY (3) Bogar, Ralph Gray
Emphasizes the economic characteristics of the principal manufacturing and processing enterprises, and considers their historic development, financial organization, and legal aspects. Prereq., 12 or 102.

325. ECONOMIC POLICY AND INDUSTRIAL ORGANIZATION (3) Bogar
An examination of the social consequences of monopoly and competition, trends in industrial concentration, the consequences of bigness, the relationship between market structure and national income, and the concept of "workable" competition. National policy relating to economic concentration and market structure will be considered as well as the impact of this national policy on United States business. Prereq., 12 or 102.

329. COMPARATIVE ECONOMIC SYSTEMS (2 or 3 as scheduled) Crewson
An analysis of the institutional framework of the following systems: modified capitalism, socialism, communism, and fascism. Special emphasis is given to the prevailing economic institutions in the United States, Great Britain, Russia, and Spain. Prereq., 12 or 102.

330. HISTORY OF ECONOMIC THOUGHT (2 or 3 as scheduled) Picard
The historical evolution of the major economic doctrines; mercantilists and cameralists, physiocrats, Adam Smith and the classical school, the historical school, the Austrian school, Alfred Marshall and the neo-classicists. Prereq., 12 or 102.

332. MODERN ECONOMIC THOUGHT (2 or 3 as scheduled) Picard
An analysis of the contributions to economics of the most significant writers since Alfred Marshall. Prereq., 12 or 102.

333. ECONOMIC THEORY (2 or 3 as scheduled) Bogar, Ralph Gray
An intensive study of the price system as an allocative mechanism. This includes the price and production policies of individual firms under alternative market conditions and an analysis of the effect of these policies on the social efficiency of resource allocation. Prereq., 12 or 102.

335. LABOR ECONOMICS (3) Levinson
Survey of the economic forces generating modern labor problems. Among the topics considered are: history of the labor movement, labor in politics, labor-management relations, wages, and full employment. Prereq., 12 or 102.

338. LABOR LEGISLATION (2 or 3 as scheduled) Levinson

Survey of the law bearing upon labor problems. Among the topics considered are: labor-relations legislation, old-age and unemployment insurance, workmen's compensation, and wages-and-hours legislation. Prereq., 335.

342. INTERNATIONAL ECONOMICS (2 or 3 as scheduled) Bogar

A study of the economic relations of nations of the world. Some of the topics considered are: the economic basis for international trade and investment; the mechanics of international exchange; tariffs, quotas, exchange control, cartels, and state trading as devices of economic nationalism; and international economic cooperation with special reference to organizations affiliated with the United Nations. Prereq., 12 or 102.

350. NATIONAL INCOME AND EMPLOYMENT ANALYSIS (3) Bogar, Ralph Gray

A study of the factors which determine the level of the nation's economic activity and which are responsible for growth and stability in the nation's economy. Part of the course is devoted to measures of the national income while the remainder consists of an analysis of the interrelationships among production, price levels, relative prices, employment, and capital formation. Prereq., 12 or 102.

355. MATHEMATICAL ANALYSIS IN ECONOMICS (3) Staff

Designed to acquaint the student with rudimentary mathematical techniques and their application to economic analysis. Problems and examples. Prereq., Stat. 155.

375. ECONOMIC DEVELOPMENT (3) Crewson

An analysis of the nature of, obstacles to, and future possibilities for the economic growth of nations. Special emphasis is given to the problems of the underdeveloped countries. Studies of selected countries are utilized. Prereq., 12 or 102.

380. STUDIES IN ECONOMICS (1 to 3) Staff

Directed readings and/or research in selected fields of economics. Topics selected by student with advice of staff member. Prereq., 12 hrs. and permission.

381. RESEARCH IN ECONOMICS (1 to 8) Staff

Prereq., 15 hrs. and permission.

391. SEMINAR IN ECONOMICS (2 to 4) Staff

Maximum credit in course, 10 hrs. Prereq., 15 hrs. and permission.

450. ADVANCED ECONOMIC THEORY (3) Staff

Partial and general equilibrium aspects of markets and prices with emphasis on economic theory as an aid to understanding the allocation process. The relevance of the market environment to the individual decision maker is stressed. Prereq., permission.

451. ADVANCED ECONOMIC THEORY (3) Staff

An application of Keynesian and Post-Keynesian macroeconomic theories to the determination of income, employment, and prices. A study of the aggregative framework within which individual decisions are made. Prereq., permission.

495. THESIS (1 to 6) Staff

Prereq., permission.

EDUCATION

Professors Crowell (dean),
 Hicks, Hill, Shoemaker, Shuster
 Associate Professors Boyd, Cooper, Evans,
 Felsinger, Green, Hummel, Krantz, Lynn,
 Milliken, Mills, Quick, Roberts, Stanger, Sligo
 Assistant Professors DeLand, Dressel,
 Eisen, Hill, Hoy, Johnson, Lackey, Leedy,
 Nelson, Raines, Roaden, Shrigley, Starks,
 Thompson, Ullmann, Wilson
 Instructors Inman, Radford, Rodgers, Stuart
 Lecturer Ray

ELEMENTARY EDUCATION

102. LITERATURE FOR CHILDREN

(3) Quick, Starks

Experiences with children, developing plans for organizing the literature program in the elementary school, and criteria for evaluating books written for children.

103. STUDIES OF CHILDREN

(3) Stanger

Bases for a developmental theory of education; growth sequences through adolescence; principles of development, behavior, and learning; techniques of child-study; systematic observation in the University Elementary School; implications for educational practice.

163. TEACHING THE LANGUAGE-ARTS OF THE ELEMENTARY SCHOOL

(3) Cooper

Pre-service preparation for developmental teaching of oral communication, reading, and written expression; texts and supplementary readings, lectures and discussion, films and other resources, observations, and projects for practical competence.

200. THE DEVELOPMENT OF KINDERGARTEN EDUCATION

(2) Starks, Wilson

The history, development, philosophy, and current trends in kindergarten education. Prereq., 103, kindergarten-primary majors or permission. Not open to freshmen.

201. MATERIALS AND METHODS IN KINDERGARTEN-PRIMARY EDUCATION

(2) Starks, Wilson

A study of work and play activities of early childhood, and the development, use, and care of materials best suited to this age group. Prereq., 103, 200, and kindergarten majors or permission.

165. TEACHING OF ARITHMETIC IN THE ELEMENTARY SCHOOL

(3) Sligo

Criteria for determining the arithmetic program; a grade-by-grade development of topics and of methods of presentation. Prereq., Math 8.

169. TEACHING OF SOCIAL STUDIES AND SCIENCE IN THE ELEMENTARY SCHOOL

(3) Felsinger, Mills

Materials and methods used in teaching the content subjects in the elementary schools, with special emphasis upon unit teaching, social studies skills, and practical experiences in the teaching of science.

209. PROBLEMS IN EDUCATION

(1 to 6) Staff

211. THE CHILD AND THE CURRICULUM

(3) Staff

Emphasis is placed upon the service role of the curriculum to children and society. Prereq., senior.

263. TEACHING OF ARITHMETIC IN THE UPPER GRADES (2) Staff

Organization and methods of teaching the subject matter of the arithmetic curriculum in grades 7 and 8; the number system; arithmetic and life activities; arithmetic and a liberal education.

303. ADVANCED STUDIES OF CHILDREN (3) Quick

An intensive study of basic research in child development. Prereq., 15 hrs. ed. or psych. or permission.

310. READING LABORATORY PRACTICUM (1 to 6) Cooper

Application of developmental approach to problem cases in reading instruction — participation in diagnostic examination, parent and teacher conferences, individual procedures in tutoring, staffing of cases, and preparation of reports; weekly group discussion period (W 3, 4), laboratory sessions arranged. Prereq., permission.

411. PROBLEMS IN THE ELEMENTARY CURRICULUM (3) Quick

A critical study of the basic issues and theories underlying curriculum development. Prereq., 488, permission.

417 a, b, c, d, e. RESEARCH AND CURRICULUM
IN ELEMENTARY EDUCATION

Critical evaluation of the literature and recent research on objectives, content, and methodology. History of instruction, current problems and issues, recent trends and emphasis in teaching practices. Impact of dominant theories of learning and philosophies of education. Research design and methodology in scientific investigations. Prereq., permission.

- a. SOCIAL STUDIES (3)—Felsinger
- b. ARITHMETIC (3)—Staff
- c. LANGUAGE ARTS (3)—Cooper
- d. READING (3)—Cooper
- e. SCIENCE (3)—Mills

Note: For other courses designed primarily for kindergarten and elementary teachers, see H. Ec. 155; Ind. A. 115; Mus. 72, 262; P. E. 270; and Art 3, 160.

SPECIAL EDUCATION — ELEMENTARY

Students desiring the state certificate to qualify as teachers of special education classes should consult the Dean's office regarding required courses.

222. DIAGNOSTIC AND REMEDIAL INSTRUCTION IN
ELEMENTARY SUBJECTS (2) DeLand

A laboratory course in methods of diagnosis and remedial treatment in fundamental school subjects for problem cases. Students are given opportunity to observe and work with exceptional children.

223. CURRICULUM FOR SPECIAL CLASSES (3) DeLand

Units of work, materials, and subject matter suited to the mental ability and level of exceptional children.

224. EDUCATION OF SLOW-LEARNING CHILDREN (2) Staff

Prereq., permission.

226. METHODS AND MATERIALS FOR TEACHING SLOW-LEARNING
CHILDREN LANGUAGE ARTS & SOCIAL STUDIES (4) Staff227. METHODS AND MATERIALS FOR TEACHING SLOW-LEARNING
CHILDREN ARITHMETIC (2) Staff

Prereq., permission.

228. OCCUPATIONAL ORIENTATION AND JOB TRAINING (2) Staff

Prereq., permission.

321. ORGANIZATION OF SPECIAL EDUCATION FOR
EXCEPTIONAL CHILDREN

(3) DeLand

Educational needs of those who differ markedly from normality—the slow-learning, the retarded, and the gifted; the physically handicapped; the emotionally unstable and socially maladjusted; their characteristics and incidences. Adjustments within regular classrooms, special classes, and special schools; individual child study, classification, and follow-up.

322. CURRICULUM & PROGRAM DEVELOPMENT FOR SLOW-
LEARNING CHILDREN

(3 to 9) Staff

325. PROBLEMS IN SPECIAL EDUCATION—THE SLOW LEARNER

(2 to 6) DeLand

SECONDARY EDUCATION

130. SECONDARY EDUCATION

(3) Staff

A historical, comparative, and contemporary study of secondary education. Emphasis is placed on the interrelations of school and society; administrative considerations such as pupil personnel, and the control, support, and organization of schools; and the objectives of education, programs of study, and student activities. Prereq., Psych. 71 and sophomore standing.

229. CURRICULUM AND TEACHING PRACTICES

(4) Staff

Topics which receive major consideration are curricular content and organization, principles of teaching-learning, techniques of classroom work, evaluation, and the respective roles of the student and the pupil. Prereq., 130.

333. EXTRA-CLASS ACTIVITIES IN THE SECONDARY SCHOOL

(3) Lynn

The scope and organization of extra-class activities in the high school and their relationship to the curriculum. Prereq., permission.

374. IMPROVEMENT OF READING IN SECONDARY SCHOOLS

(2) Cooper

The teaching of reading as a developmental process, with special reference to extending instruction beyond the elementary school; instructional materials and procedures for individuals and groups; adapting programs to individual differences; reading in the content fields; fostering growth in concepts, vocabulary and reading habits. Prereq., 9 hours, Psych. 71.

432. THE HIGH SCHOOL CURRICULUM

(3) Roberts

The high school program of studies, contributions of various subjects, theories of curriculum construction, curriculum research, and desirable steps in the reorganization of the high school curriculum. Prereq., 359.

PROFESSIONAL LABORATORY EXPERIENCE

272. STUDENT TEACHING IN THE ELEMENTARY SCHOOL

(2 to 12) Evans, staff

To be taken concurrently with 288. Prerequisites indicated in College of Education section of catalog.

274. STUDENT TEACHING FOR ADVANCED STUDENTS

(3) Staff

A seminar with observation, participation and limited opportunities for teaching; open only to elementary teachers with at least three years of teaching experience and who are completing the requirements for the degree Bachelor of Science in Education. Prereq., permission.

277. FIELD EXPERIENCE

(1 or 2) Evans, staff

A two-week experience in a public school, taken at the opening of the public school year in September. This experience must be arranged through the Office of the Director of Student Teaching and with the administrative approval of the public school system. All secondary and off-campus elementary education students will be required to attend five scheduled convocations during the fall semester and receive two hours of credit. Prereq., sophomore standing.

280. OBSERVATION AND PARTICIPATION

(3) Evans, staff

An experience in a public school or campus during a regular University session. Prereq., junior standing and permission.

281. STUDENT TEACHING IN THE SECONDARY SCHOOLS

(2 to 12) Evans, staff

Prerequisites indicated in the College of Education section of catalog.

288. STUDENT TEACHING SEMINAR

(3) Staff

A discussion of problems encountered by the student teacher in his daily classroom experiences. Particular emphasis is given to planning, evaluation, classroom management, and pupil adjustment. This course is taken concurrently with 272 by all students in elementary education and concurrently with 281 by all students in secondary education completing student teaching in off-campus centers.

472. LABORATORY SCHOOL PROBLEMS

(2) Staff

Prereq., permission.

473. SUPERVISION OF STUDENT TEACHING

(2 to 6) Staff

Designed to prepare students for the work of the supervising teacher in a college or university. Prereq., permission.

GENERAL EDUCATION**125. THE PURPOSES AND PRACTICES OF EDUCATION**

(3) Lynn

An introductory survey of the American public school system at all grade levels; objectives, curricular problems, guidance, organization, and administration as they affect the teacher. Not open to students who have had 130. Prereq., second semester sophomore standing.

241. AUDIO-VISUAL TEACHING AIDS

(2) Staff

Sources, selection, and use of audio-visual aids in instruction; their integration in the school program; selection, operation, and maintenance of equipment.

358. WORKSHOP IN ECONOMIC EDUCATION

(3) Staff

A study of basic economic concepts and practical economic problems with the view to their integration into the school curriculum. Prereq., permission. (Summer and Extension only.)

359. GENERAL CURRICULUM

(3) Staff

A critical study of the public school curriculum including a review of curriculum theories, practices, and trends in grades kindergarten through twelve. Special emphasis is given to problems in curriculum development and organization. Prereq., 211 or 229 and permission.

388. CONSERVATION EDUCATION WORKSHOP

(6) Staff

A field course designed primarily for teachers in service. Relationships between conservation and the natural sciences primarily for the elementary and junior high school teacher. Approval of adviser. (Summer only.)

416. READINGS AND RESEARCH IN HUMAN DEVELOPMENT (3) Stanger
Interpretation of the scientific literature on human development as related to classroom experience in kindergarten through the twelfth grade. Independent projects delineating the developmental bases for understanding and solving selected educational problems. Prereq., 303 or permission.

428. ADVANCED PRINCIPLES OF TEACHING (3) Staff
A critical appraisal of research on learning and teaching. Prereq., permission.

450. HIGHER EDUCATION (3) Hill
A survey of the background and growth of higher education in the United States. Present status of various types of institutions will be studied. Prereq., permission.

478. SEMINAR IN EDUCATION (2) Staff
Advanced studies of special problems in elementary education, guidance, secondary education, and school administration. Prereq., permission.

479. CONTEMPORARY COMPARATIVE EDUCATION (3) Ray
A comparative study of the national systems of education with special emphasis on international cooperative programs of education viewed in terms of purposes, administration, and curriculum. Prereq., post-masters standing.

491-492. ADVANCED SEMINAR IN EDUCATION (3-3) Staff
Current literature and advanced research in education. Individual reports and discussion. Required of first year post-masters students. Prereq., permission.

GUIDANCE AND COUNSELING

360. GUIDANCE PRINCIPLES (3) Staff
The need for guidance in the schools, the nature of guidance, and the major guidance services. Prereq., 6 hrs. incl. 130, and Psych. 71.

361 a, b, c. GUIDANCE AND COUNSELING PRACTICUM (1 to 3) Staff
Directed practice in counseling and other guidance and student personnel services. Prereq., 360 or 367 and permission.
a. Elementary School
b. Secondary School
c. College and University

362. INFORMATION SERVICE IN GUIDANCE (3) Hill
The collection, evaluation, and use of occupational, educational, and related information in the guidance program. Prereq., 360 or 367.

363. INDIVIDUAL ANALYSIS IN GUIDANCE (3) Green
Use of cumulative records, case study procedures, sociometric tests, group processes and the like in guidance. Synthesis of information about the client. Prereq., a course in measurement or equiv.; 360 or 367.

364. COUNSELING IN SCHOOLS (3) Staff
Basic principles of counseling in an educational context. Development of sound procedural bases for counseling and educationally-oriented counseling theory. The ethics of counseling. Prereq., 360 or 367.

365. IDENTIFICATION AND GUIDANCE OF ABLE YOUTH (3) Staff
A comprehensive treatment of the characteristics of superior, talented and able youth. Methods of identification of the able. Special problems of guidance and education of the able so that they may more fully utilize their talents. Lecture, readings, demonstrations. Prereq., permission.

366. GUIDANCE TECHNIQUES FOR THE ABLE (3) Staff
A special program of study and practice in testing, counseling, informational service, follow-up, and group techniques with special application to the needs of able youth. Prereq., 360 or 367.

367. GUIDANCE IN ELEMENTARY SCHOOLS (3) Raines
The need for guidance in the elementary school. The nature of guidance and of the guidance services in elementary education. Prereq., 6 hrs. and Psych. 71.

461. WORKSHOP IN GUIDANCE (1 to 3) Staff
Prereq., 360 and permission.

462. FIELD EXPERIENCE IN GUIDANCE (2 to 4) Staff
Supervised field work. Periodic campus conferences and visitations are required. Prereq., 361 and permission.

464. ADMINISTRATIVE RELATIONS IN GUIDANCE (3) Hummel
The organization and administration of guidance, community relations, legal bases for guidance. Prereq., 360 or 367.

465. GROUP GUIDANCE: MATERIALS AND PROCEDURES (3) Raines
The theoretical bases for group work in guidance. Materials and teaching procedures for group work. Laboratory work in Guidance Laboratory and Materials Center. Prereq., 362.

467. a, b, c, 468 a, b, c. ADVANCED PRACTICUM IN
GUIDANCE AND COUNSELING (2 to 5, 2 to 5) Staff
Directed practicum for advanced students in guidance and student personnel. Major attention to counseling theory and practice. Prereq., post-masters standing and permission.
a. Elementary School
b. Secondary School
c. College and University

HISTORY AND PHILOSOPHY

350. THE HISTORY OF EDUCATION (3) Shoemaker
Studies the agencies of education and the social forces which have conditioned them during ancient, medieval, and modern times. Prereq., 6 hrs., Psych. 71.

351. THE SCHOOL IN THE SOCIAL ORDER (3) Shoemaker
Education in the United States from the Colonial period to the present. The social, political, economic, religious, and philosophical foundations which have conditioned the evolution of the public schools. Prereq., 6 hrs., Psych. 71.

353. THE EVOLUTION OF EDUCATIONAL THOUGHT (3) Shoemaker
Deals solely with the educational writings of such theorists as Plato, Aristotle, Quintilian, Montaigne, Locke, Comenius, Rabelais, Rousseau, Pestalozzi, Froebel, Herbart, and Dewey. Prereq., 6 hrs., Psych. 71.

454. PHILOSOPHY OF EDUCATION (3) Shoemaker
A comparison of pragmatism, idealism, and realism as philosophical bases for education. Each student is helped to formulate his philosophy of education. Prereq., 6 hrs.

RESEARCH AND SCIENTIFIC TECHNIQUES

381. EDUCATIONAL STATISTICS (3) Sligo
The tabulation and graphical representation of frequency tables, measures of central tendency, percentiles and percentile curves, measures of variability, probability and the normal curve, testing, statistical hypothesis, and correlation. Prereq., 6 hrs., Psych. 71.

382. ADVANCED EDUCATIONAL STATISTICS (3) Sligo
Nonlinear relations, partial correlation, multiple correlation, regression, various methods of correlation, and the interpretation of correlation coefficients. Practice in the use of logarithms, statistical tables, and calculating machines. Prereq., 381.

385. EDUCATIONAL MEASUREMENTS (3) Sligo
The improvement of the essay examination; criteria for evaluating tests; teacher-made objective tests; standardized tests; elementary statistical procedures. Prereq., 6 hrs., Psych. 71.

483. RESEARCH IN EDUCATIONAL STATISTICS (1 to 6) Sligo
An advanced course in statistics dealing with the derivation of formulae, the analysis of relationships, and the interpretation of results. Prereq., 382 and permission.

484. RESEARCH IN EDUCATION (1 to 6) Staff
Prereq., 9 hrs., Psych. 71, and permission.

488. INTRODUCTION TO GRADUATE STUDY (3) Staff
Methods of research in education and the selection, planning, and evaluation of research problems. The history and purposes of graduate education. Required of all graduate students in education. Prereq., permission.

495. THESIS OR DISSERTATION (As recommended by dept.) Staff
Prereq., permission.

SCHOOL ADMINISTRATION AND SUPERVISION

335. WORKSHOP IN ELEMENTARY SCHOOL ADMINISTRATION (2) Staff

340. SCHOOL PUBLIC RELATIONS (2) Staff
The function of school administration in public understanding of the school's work and furthering lay participation in determination of school policy. Prereq., 6 hrs., Psych. 71.

410. ADMINISTRATION OF THE ELEMENTARY SCHOOL (3) Shuster
The responsibilities of teachers and principals in administration, curriculum construction, supervision, plant management, and public relations. Prereq., 6 hrs., including 440.

430. HIGH SCHOOL ADMINISTRATION (3) Lynn
Same description and prereq. as 410.

440. GENERAL SCHOOL ADMINISTRATION (3) Staff
An introduction to educational administration.

441. STATE, NATIONAL, AND INTERNATIONAL SCHOOL ADMINISTRATION (3) Ray
The state program of education, state responsibility, educational organization, certification and tenure, national educational services, federal relations to education, national problems in education, and international relations to education. Prereq., 440.

442. SCHOOL FINANCE (2) Ray
Local, state, and federal; business management in such areas as the school budget, financial reports, school purchasing, transportation, and insurance. Prereq., 6 hrs., including 440.

443. SCHOOL LAW (3) Ray
The constitutional basis for education, schools and their legal setting, and school legislation and court decisions, with special reference to Ohio school law. Prereq., 440.

444. SCHOOL PLANT MAINTENANCE AND OPERATION (3) Roaden

Principles and practices in the administration of school plant operations and maintenance. Designed primarily for local school administrators and directors of maintenance and operations, the course covers such areas as organization of the program; selection and training of personnel; care and repair of buildings; purchasing and handling supplies and equipment. Prereq., permission.

445. SCHOOL PLANT PLANNING (3) Roaden

Principles, practices, and problems in the administration of the school building program. Includes evaluation of existing facilities; surveying needs; planning programs; developing educational specifications; selection of the architect; attaining efficiency and economy through design and construction; equipping the plant; and financing the building program. Prereq., 440.

446. SUPERVISION OF INSTRUCTION (3) Staff

The principles underlying supervision and techniques which promote the growth of teachers in service. Laboratory experiences in analysis of teaching situations. Prereq., permission.

447. PERSONNEL PROBLEMS IN THE PUBLIC SCHOOLS (3) Krantz

Philosophy of personnel administration, development of policies covering selection, classification, certification, tenure, contracts, in-service training programs, and placement of teaching and non-teaching personnel in the schools. Prereq., 12 hrs.

448-449. ADVANCED THEORY AND PRACTICES OF SCHOOL ADMINISTRATION (3-3) Hicks

Prereq., 9 hrs. of school administration courses and permission.

451. ADVANCED SCHOOL BUSINESS ADMINISTRATION (3) Hicks

The role of business administration in public education: principles and practices of auditing, budget preparation and control, debt service insurance, legal aspects, payroll administration, personnel administration, plant operation and maintenance, purchasing, school plant planning, and supply management. Prereq., 442 and permission.

452. PROBLEMS IN SCHOOL BUSINESS ADMINISTRATION Staff

Intensive one-week courses, each covering a phase of business administration of public schools. Each course consists of twenty hours of lecture and fifteen hours of laboratory activities. Prereq., permission.

452 a. ADMINISTRATION OF PUPIL TRANSPORTATION (1) Staff

Topics covered include selection, training, and supervision of bus drivers; preparation of specifications for purchase of buses; supervision of the servicing and maintenance of buses; route scheduling, pupil control, public relations, insurance problems of transportation, school bus safety.

453. SEMINAR IN SCHOOL-COMMUNITY RELATIONS (3) Staff

New concepts and specific techniques in school-community relations; public involvement in educational planning; educational involvement in community planning. Prereq., permission.

455. ADVANCED SCHOOL PLANNING (3) Roaden

Designed primarily for advanced graduate students in school administration who possess a particular interest in school plant planning. Largely oriented toward specific planning problems, the course provides opportunity for depth treatment of areas of interest to the student as well as a greater understanding of problems encountered in planning educational facilities.

474. THE ADMINISTRATION OF TEACHER EDUCATION (3) Staff
Prereq., permission.

ENGINEERING Dean Taylor

ENGINEERING

229. REVIEW OF ENGINEERING FUNDAMENTALS (0) Staff
A review of the fundamental engineering subjects with emphasis on the type of questions usually asked on the Ohio State Professional Engineers examination. The first half of the course covers general engineering subjects and the second half, a specific field. Prereq., permission.

380. COLLOQUIUM (1) Staff
A series of lectures, mainly by speakers outside of the engineering field, on cultural and professional subjects, with discussion moderated by the speaker. Prereq., senior standing. (2nd sem., yearly.)

391. SEMINAR (1 to 3) Staff
Prereq., approval by chairman of department.

ENGINEERING GRAPHICS Associate Professors Nellis (chairman),
Wickham
Assistant Professors Barnhill, Rogers, Sarchet
Instructors Dickie, DiLiberto

1-2. ENGINEERING DRAWING (2-2) Staff
Freehand lettering, use of instruments, geometric constructions, freehand drafting, orthographic projection, auxiliary and sectional views, dimensioning. Isometric, oblique, detail and assembly drawing. Intersections, developments, tracings and blue prints. Working drawings made from actual machine parts are dimensioned in the accepted American Standard method. (6 lab.)

3. THE SLIDE RULE (1) Staff
Prereq., Math. 15.

15. INDUSTRIAL ARTS DRAWING (2) Staff
A course in mechanical drawing as related to the fields of woodworking, sheetmetal, machine shop, patternmaking, electricity, and welding. 2 lec., 3 lab. Prereq., 1. (2nd sem., yearly.)

21. DESCRIPTIVE GEOMETRY (2) Staff
Problems relating to points, lines, planes, solids, and their projections, space visualization, curved surfaces, intersection of planes and solids, model making, practical applications. Daily exercise sheets. 1 lec., 2 lab. Prereq., 1.

115. MACHINE DRAFTING (3) Staff
Standard and basic representations as applied to commercial drafting and their application to detail and assembly drawings. 6 lab. Prereq., 2. (1st sem., yearly.)

122. NOMOGRAPHY

(2) Staff

Fundamentals of graphical solutions of equations by means of nomograms and alignment diagrams. 2 lec. Prereq., 1, Math. 15. (2nd sem., yearly.)

126. INDUSTRIAL ARTS DRAWING

(2) Staff

Pictorial methods, delineation, freehand techniques, architectural drafting, maps, graphs, charts, chalkboard techniques, and related information and teaching aids of interest to drawing instructors. 2 lec., 3 lab. Prereq., 15. (1st sem., yearly.)

CHEMICAL ENGINEERING

Assoc. Professors H. B. Kendall

(chairman), Mayer

Assistant Professors Baasel, Baloun

101. INTRODUCTION TO CHEMICAL PROCESS PRINCIPLES
AND EQUIPMENT

(3) Staff

The application of chemistry, physics, and elementary thermodynamics to the solution of typical industrial problems. Prereq., Chem. 4, 99, Math. 16.

201. INTERMEDIATE CHEMICAL ENGINEERING CALCULATIONS

(3) Staff

A continuation of 101 with particular application of thermodynamics to chemical engineering problems. Prereq., 101, Math. 102.

211. MATERIALS AND METALLURGY

(3) Staff

An introductory course for engineers. Fundamental metallurgical theory, including physical properties of metals and alloys. Prereq., Phys. 115 or with 115.

220. THERMODYNAMICS AND KINETICS

(3) Staff

Study of thermodynamics and chemical engineering kinetics. Applications of kinetic theory to design of chemical reactors. Prereq., 201 or Chem. 314.

230. PRINCIPLES OF ENGINEERING MATERIALS

(3) Staff

Fundamental principles underlying the behavior of engineering materials, both metallic and non-metallic. Study of relationships between structure and properties. Prereq., Chem. 4.

301. APPLIED CHEMICAL ENGINEERING CALCULATIONS

(3) Staff

Calculations involved in unsteady-state heat and mass transfer. Setting up of ordinary and partial differential equations corresponding to typical chemical engineering situations, and the methods available for their solutions, including computer and graphical techniques. Prereq., 311 and Math. 215 or permission.

305. APPLIED ENGINEERING STATISTICS

(3) Staff

Statistical design and analysis of engineering experiments. The use of statistics to obtain the maximum information from experimental data. Prereq., permission.

310-311. UNIT OPERATIONS

(3-4) Staff

Fundamental principles of fluid flow, heat and mass transfer, and other basic unit operations with problems to illustrate the principles. Laboratory in 311 emphasizes uses of digital and analogue computers. Prereq., 201 or with 201, Chem. 313 or with 313.

312. UNIT OPERATIONS LABORATORY

(2) Staff

Laboratory practice to illustrate the principles of selected unit operations and processes and to aid students in gaining confidence in the handling of pilot plant equipment. Development of ability to devise and conduct experiments with minimum supervision, and to report results satisfactorily, is stressed. Prereq., 311.

320. UNIT PROCESSES

(3) Staff

Investigation of typical industrial chemical processes from the viewpoint of the unit steps involved. Typical inorganic and organic processes are studied. Emphasis is on application of thermodynamic and kinetic theory, and on raw material and energy sources, to the lay-out and design of equipment and processes. Prereq., 310, Chem. 202.

330. METALLIC CORROSION

(3) Staff

Electrochemical nature of corrosion; high temperature oxidation. The influence of various atmospheres, and of stress, strain and structure on corrosion. Corrosion prevention. Prereq., 211 or 230, or permission.

333. TRANSFORMATIONS IN METALLIC SOLIDS

(3) Staff

Mechanisms and kinetics of reactions in metallic solids. Diffusion, eutectoid, precipitation, martensite and other solid reactions. Morphological and orientation changes occurring with reactions. Prereq., 211 or 230, or permission.

340-341. DESIGN AND INSTRUMENTATION

(4-3) Staff

Project work involving chemical process design, including evaluation and extension of fundamental data by calculation, choice of operating conditions, estimation of costs, selection of equipment, and the application of automatic controls. Prereq., senior, 311, 320, Chem. 314.

350. INTRODUCTION TO TRANSPORT PHENOMENA

(3) Staff

Introduction to heat, mass, and momentum transfer from a theoretical basis. The presentation of boundary-layer theory and its comparison with other theoretical and semi-theoretical approaches. Prereq., 311.

390. SPECIAL INVESTIGATIONS

(1 to 3) Staff

Individual or small group work, under guidance, in research or advanced study in a particular field of chemical engineering. Maximum credit, 6 hrs. Prereq., permission from chairman.

Courses listed primarily for graduate students. Refer to graduate bulletin for detailed information.

401. ADVANCED CHEMICAL ENGINEERING THERMODYNAMICS

(3)

410-411. ADVANCED TRANSPORT PHENOMENA

(3-3)

415. ADVANCED CHEMICAL ENGINEERING OPERATIONS

(3)

420. ADVANCED PROCESS THEORY

(3)

440. PROCESS DYNAMICS

(3)

481. RESEARCH IN CHEMICAL ENGINEERING

(1 to 4)

490. SPECIAL TOPICS IN CHEMICAL ENGINEERING

(1 to 3)

491-92. READINGS AND SEMINAR

(1-1)

495. THESIS

(1 to 6)

CIVIL ENGINEERING

Professor Shermer (chairman)
 Associate Professor Badger
 Assistant Professors Kaneshige, Russ

10. PLANE SURVEYING (3) Staff
 Basic theory and field practice. 2 lec., 3 lab. Prereq., Math. 14 or 15 or equivalent.

120. APPLIED MECHANICS (3) Staff
 Laws of equilibrium of forces; friction; centroids and moment of inertia. Prereq., Math. 101 or with Math. 101.

121. APPLIED MECHANICS (3) Staff
 Motion of a particle and of rigid bodies. Work and energy; impulse and momentum. Prereq., 120, Math. 102 or with Math. 102.

213. ADVANCED SURVEYING (3) Staff
 Astronomical observation, topographic surveying, layout of curves, principles of photogrammetry. 2 lec., plus lab. Prereq., 10, with 260. (1st sem.)

222. STRENGTH OF MATERIALS (3) Staff
 Elementary stresses and strains, torsion; flexure, including elastic curve equations; columns; combined stresses; stresses due to impact. 3 lec. Prereq., 120, Math. 102 or with Math. 102.

223. MATERIALS TESTING LABORATORY (1) Staff
 A series of experiments on the tensile, compressive, and shearing strengths of the principal engineering materials. 2 hrs. lab. Prereq., 222 or with 222.

224. FLUID MECHANICS I (3) Russ
 Fundamental principles of the mechanics of fluids and their application to engineering. Fluid pressure, flow in orifices, weirs, pipes, and open channels; elementary theory of pumps and turbines. Prereq., 121 or with 121.

225. SOIL MECHANICS I (3) Staff
 Identification and classification of soils for engineering purposes; principles of hydromechanics and soil-mass behavior. 2 lec., 2 lab. Prereq., 222 or permission.

226. FOUNDATION ENGINEERING I (2) Staff
 Determination of bearing capacity of soils. Application of soil mechanics to the design of foundation structures. 2 lec., Prereq., 225.

228. REINFORCED CONCRETE (3) Staff
 Analysis and design of reinforced concrete members and structures by elastic and ultimate strength methods. Introduction to prestressed concrete. Prereq., 222. (2nd sem.)

230. STRUCTURAL THEORY I (3) Staff
 Statically determinate structures. Prereq., 222 or with 222.

231. STRUCTURAL DESIGN I (4) Staff
 Design of metal structures. Prereq., 230. (1st sem.)

240. HYDRAULICS LABORATORY (1) Russ, staff
 Experimental study of orifices, weirs, flow in pipes and channels; hydraulic jump; turbines; pumps. 2 lab. Prereq., 224 or with 224.

241. HYDROLOGY

(2) Staff

Precipitation data, rainfall and run-off, irrigation, flood control, erosion control, and municipal and industrial water supply. Prereq., 224. Geology upperclassmen specializing in water resources may take course by permission. (1st sem.)

249. WATER SUPPLY ENGINEERING

(3) Kaneshige

Source, treatment, and delivery of water. Design and construction of water purification plants. Prereq., 241. (2nd sem.)

250. SEWERAGE AND SEWAGE TREATMENT

(3) Kaneshige

Collection, treatment, and disposal of sanitary and industrial wastes. Design and construction of sewage disposal plants. Prereq., 224. (1st sem.)

260. ROUTE ENGINEERING

(2) Staff

Curves and spirals; geometric design of transportation systems, earthwork problems. 2 lec., Prereq., 10.

261. TRANSPORTATION ENGINEERING

(4) Staff

Transportation planning analysis, drainage facilities; theory and practice in the design, construction and maintenance for low cost, intermediate and high type pavements; laboratory tests of aggregates, stabilized bases and bituminous paving mixtures. 3 lec., 2 lab., Prereq., 260.

270. ENGINEERING ECONOMY

(3) Ralph D. Smith

Economic studies of proposed new enterprises, replacement of existing machines or structures, break-even and minimum cost points, planning for growth, and economy studies for public works. Jr., Sr., engineering students only, or permission.

313. ADVANCED SURVEYING PROBLEMS

(2) Staff

Advanced problems in plane surveying and problems in geodetic surveying. 1 lec., 2 lab. Prereq., 213, permission.

314. PHOTOGRAMMETRY

(3) Staff

Equipment and methods used in aerial photography and land measurement. Prereq., 213, permission.

324. FLUID MECHANICS II

(3) Russ

A comprehensive treatment of fluid state and flow, water hammer, and hydraulic machinery, with engineering application. Prereq., 224, permission.

325. SOIL MECHANICS II

(3) Staff

Advanced theories of stress-strain, seepage, earth pressure, consolidation and stability in soils. 3 lec., Prereq., 226.

326. ADVANCED STRENGTH OF MATERIALS

(3) Staff

Theories of failure, stresses and strains at a point, curved beams, torsion. Prereq., 222, Math. 215, permission. (1st sem.)

327. FOUNDATION ENGINEERING II

(3) Staff

Analysis and design of substructures to meet various soil conditions. 2 lec., 2 lab., Prereq., 226.

328. THEORY OF ELASTICITY

(3) Adams

Theorems relating to stress-strain relationships for elastic materials. Two and three-dimensional stress-strain analyses. Torsion and bending of prismatic bars. Prereq., 326, Math. 215, permission. (2nd sem.)

329. THEORY OF STABILITY (3) Adams
Buckling of members under lateral and transverse loads. Effect of eccentric loads and beam curvature. Buckling of truss members. Prereq., 222, Math. 215, permission.

330. STRUCTURAL THEORY II (3) Shermer
Statically indeterminate structures. (2nd sem.) Prereq., 230.

331. STRUCTURAL DESIGN (3) Shermer
A study of the design of reinforced concrete members and structures, and a continuation of steel design. Prereq., 228, 231, 330 or with 330. (2nd sem.)

332. STRUCTURAL DESIGN (3) Shermer
Design of indeterminate structures. Modern design concepts and principles as applied to various construction materials. Prereq., 331, permission.

335. EXPERIMENTAL STRESS ANALYSIS (3) Staff
Model analysis of rigid frames by means of deformeters. Use of strain gages, stress coats, and deflection gages for stress analysis. Use of photoelastic equipment. 2 lec., 2 lab. Prereq., 326, 330, permission.

340. STRUCTURAL ANALYSIS (3) Shermer
Analysis of indeterminate structures by both classical and modern methods, analysis of multistory bents, arches, closed rings, and frames with variable cross-sections, plastic theory and design. Prereq., 330, permission. (1st sem.)

341. STRUCTURAL ANALYSIS (3) Shermer
Continuation of 340, shell structures. Prereq., 340.

349. ADVANCED WATER TREATMENT (3) Kaneshige
Advanced study of water treatment theory. Design of treatment units. Practice in control methods. 2 lec., 2 lab. Prereq., 249, permission.

350. ADVANCED SANITARY ENGINEERING (3) Kaneshige
Advanced study of sewage treatment theory. Design of treatment units. Practice in control methods. 2 lec., 2 lab. Prereq., 250, permission.

361. TRAFFIC ENGINEERING (3) Staff
Principles of highway and street traffic movements, traffic analysis and control as affecting the geometric design of roadways and parking facilities; evaluation of airport traffic. 2 lec., 2 lab., Prereq., 261.

362. PAVEMENT DESIGN (3) Staff
Rational and empirical design methods for rigid and viscoelastic layered pavement systems. 3 lec., Prereq., 225, 261.

363. SOIL STABILIZATION (3) Staff
Requirements for and factors affecting soil stability, methods of stabilizing soils, design and laboratory testing of stabilized soils. 2 lec., 2 lab., Prereq., 225.

364. BITUMINOUS PAVING MATERIALS (3) Staff
Manufacture, constituents, chemical behavior, specifications and laboratory tests of bituminous materials and their reaction with aggregates. 2 lec., 2 lab., Prereq., 261.

390. SPECIAL INVESTIGATIONS (1 to 3) Staff
Prereq., permission.

481. RESEARCH IN CIVIL ENGINEERING	(1 to 4) Staff
Prereq., permission.	
495. THESIS	(1 to 6) Staff
Prereq., permission.	

ELECTRICAL ENGINEERING Professor Quisenberry (chairman)
 Associate Professors Hoffee, McFarland,
 Selleck, G. Smith
 Assistant Professors Andersen, Fahey, Niesse
 Instructors Essman, Huff
 Lecturer Cartland

To satisfy the B.S.E.E. requirements, a student may complete either E.E. 103 or 101-102.

101. BASIC ELECTRICAL ENGINEERING (2) Hoffee
 Fundamental concepts of potential, current, and charge. Introduction to D. C. circuits. Ohm's and Kirchoff's law, wye-delta transformation, resistivity, temperature coefficients, mesh equations, non-linear resistances, superposition, electrical measurements theory; galvanometers and shunts, D. C. bridges, potentiometers. 1 lec., 3 comp. Prereq., Math. 16.

102. BASIC ELECTRICAL ENGINEERING (3) Hoffee
 Continuation of 101. Network theorems, nodal equations, duality, topology, electrical measurements, magnetism and magnetic circuits, basic electrostatics and electromagnetics, single phase A. C. circuits. 2 lec., 2 comp., 2 lab. Prereq., 101.

103. BASIC ELECTRICAL ENGINEERING (4) Hoffee
 Not open to students with 101 and 102 credit. Course content equivalent to combined 101 and 102. Those students with insufficient background or those who do poorly the first few weeks will be strongly urged to take the 101-102. 3 lec., 2 comp. Prereq., Math. 101 or with Math. 101.

103. LABORATORY (1) Hoffee

104. BASIC ELECTRICAL ENGINEERING (4) Hoffee
 A. C. circuits—topology, network theorems, nodal equations, polyphase circuits, complex frequency plane, pole zero analysis, coupled circuits, resonance, locus diagrams, transients, non-sinusoidal waves and inputs, introduction to the Laplace transformation. 3 lec., 2 comp. Prereq., 102 or 103.

104. LABORATORY (1) Staff

201. CIRCUITS AND MEASUREMENTS (4) Selleck
 Direct current circuits and measurements, magnetic circuits and measurements, alternating current circuits and measurements, single phase and three phase. Not open to Electrical Engineering majors. 3 lec., 2 lab. Prereq., Math 102, Phys. 114.

202. ELECTRICAL MACHINERY (3) Selleck
 Direct and alternating current machinery. Not open to Electrical Engineering majors. 2 lec., 2 lab. Prereq., 201.

203-204. ENERGY CONVERSION

(4-4) Selleck

The general principles of magnetic coupling and electro-magnetic energy conversion, the steady-state and dynamic properties of rotating machines; the applications of these principles in devices of engineering importance. 3 lec., 2 lab. Prereq., 104.

207. ELECTRONIC DEVICES AND CIRCUITS I

(4) G. E. Smith

Semiconductor vacuum and gas diodes, triodes, tetrodes, etc., and their equivalent circuit approximations. Introduction to physical theories of conduction in metals, semiconductors, vacuums and gases. Linear and piecewise linear models. 3 lec., 2 lab. Prereq., 104, Math. 102.

208. ELECTRONIC DEVICES AND CIRCUITS II

(4) G. E. Smith

Amplification and wave shaping. Energy storage elements. Non-linear elements. Transfer functions. Linear approximations to non-linear systems. Equivalent circuits. Feedback, stability, wave-form generation oscillations, graphical methods of analysis of non-linear circuits. Balanced circuits, power amplifiers, power rectifiers. 3 lec., 2 lab. Prereq., 207.

209. INDUSTRIAL ELECTRONIC CIRCUITS AND CONTROL

(3) Cartland

Fundamental network analysis, vacuum and gas diodes, triodes, pulse circuits, semiconductors in industrial electronic controls, magnetic amplifiers, strain gages and transducers; feed-back devices and voltage regulators. Not open to Electrical Engineering majors. 2 lec., 2 lab. Prereq., 201.

210. ENGINEERING ANALYSIS

(3) Essman

Application of mathematical methods to engineering problems. I-d equations, phase plane methods. Fourier transforms, probability and elementary statistics, energy methods. 3 lec. Prereq., Math. 215.

234. ADVANCED CIRCUITS

(3) Quisenberry

The Laplace transform applied to transient solutions of linear systems. Special attention is given to electromechanical systems, including feedback, vacuum tube amplifiers, and single-flow diagrams. 3 lec. Prereq., 104.

261. DIGITAL COMPUTER SEMINAR FOR ENGINEERING

(1) Niesse

Characteristics of general purpose digital computers, coding and programming engineering problems in fixed point, and solving on the LGP-30 computer. Also, programming for an algebraic compiler. Intended as an early course to facilitate problem solving in subsequent engineering courses. 1 lec.

301. COMMUNICATION ENGINEERING I

(4) Essman

A study of the propagation of electrical energy along transmission lines and the analysis of four terminal networks in form appropriate for communication engineers; transmission lines; two port network analysis; filters; coupled circuits; impedance matching; and attenuators. 3 lec., 2 lab. Prereq., 208.

302. COMMUNICATION ENGINEERING II

(4) Essman

A unified approach to the study of communications stressing the principles common to all information transmission systems; measurement of information; Fourier Series; Fourier Integral; frequency spectrum; time response; amplitude modulation (double and single sideband); frequency modulation; sampling theory; pulse modulation (PAM, PDM, PPM); noise and comparison of modulation systems. 3 lec., 2 lab. Prereq., 208.

310. SEMICONDUCTOR DEVICES AND CIRCUITS

(3) G. E. Smith

Physics of semiconductors. Transistor equivalent circuits, amplifiers, oscillators, modulation and detection. 2 lec., 2 lab., Prereq., 208.

321. ULTRA HIGH FREQUENCY ENGINEERING

(3) Hoffee

A study of the theory and techniques associated with ultra high frequency systems. Circuit elements, generation and synchronization of special waveforms, oscillators, amplification and transmission. 3 lec., lab. arranged. Prereq., 335.

322. MICROWAVE THEORY AND DEVICES

(3) McFarland

Generation, transmission, amplification, and radiation of electromagnetic energy in the frequency range 300 mcs upwards. Discussion of klystrons, magnetrons, waveguides, striplines, resonators, masers, lasers, and special antennas. 3 lec., lab. arranged. Prereq., 335.

325. ACOUSTICAL ENGINEERING

(3) Cartland

Propagation of sound energy in free space and in enclosures. Analysis and measurements of acoustical systems; characteristics of electro-acoustic transducers. Design of horns and enclosures. A study of acoustic absorption and reflection in auditoriums. 2 lec., 2 lab. Prereq., Math 215.

330. STATISTICAL ANALYSIS OF SYSTEMS

(3) Essman

Stationary time series, power density spectra, correlation functions, mean square error. Optimization of network in the presence of noise. Applications of probability theory and sampling theory. 3 lec. Prereq., 210.

331. SERVOMECHANISMS

(3) Quisenberry

Automatic controller theory and analysis including the study of error-rate damping, integral control, signal-flow diagram applications, Routh-Hurwitz and Nyquist criteria, root-locus methods. 2 lec., 2 lab. Prereq., 234.

332. CONTROL OF ELECTRICAL MACHINERY

(3) Selleck

Magnetic and electronic motor controllers, including a study of control theory and applications to given problems. 3 lec. Prereq., 204.

333. INTRODUCTORY SYSTEM ANALYSIS

(3) Niesse

Signal representation; circuit models of mechanical and electrical systems, and circuit analysis; analysis of feedback systems. 3 lec. Prereq., 201 and or with Math. 216.

335. ELECTROMAGNETIC FIELDS

(3) McFarland

Discussion of electrostatic, magnetostatic, and time-harmonic electromagnetic fields. Development of Maxwell's equations from laws of Gauss, Ampere, and Faraday. Introduction to plane waves in dielectric media. 3 lec. Prereq., Math. 216.

336. RADIATION AND PROPAGATION OF ELECTROMAGNETIC FIELDS

(3) McFarland

Plane waves in dielectric and conducting media. Analytic solution to LaPlace's Equation with specified boundaries. Radiation, antennas and arrays, propagation of electromagnetic fields in space as pertaining to radar, communications, and research. 3 lec. Prereq., 335.

338. PLASMA DYNAMICS I

(3) Fahey

Electron and ion orbits in electric and magnetic fields. Collision-free plasmas. Conductivity and permittivity tensors. Plasma sheaths. Transport phenomena and waves in plasmas. 3 lec. Prereq., 208, 335.

339. PLASMA DYNAMICS II

(3) Fahey

Macroscopic equations of plasmas. Consideration of stability and confinement. Magnetic compression. Hydromagnetic shocks. Radiation from Plasmas. 3 lec. Prereq., 338.

342. SYMMETRICAL COMPONENTS (3) Quisenberry
Circuits analysis by symmetrical components. Representation of unbalanced polyphase currents and voltages by component symmetrical sets; solutions of faults on power systems. 3 lec. Prereq., 204.

343. ELECTRICAL TRANSMISSION OF POWER (3) Selleck
Economic and electrical principles of transmission of electrical power, line equations and calculations, hyperbolic solution of long lines, insulation and protection against transients, mechanical principles and practical line construction. 3 lec. Prereq., 342.

344. ELECTRICAL DESIGN (3) Selleck
Fundamental design relations of electrical machinery and predetermination of performance. 3 lec. Prereq., 204.

345-346. PROBLEMS IN ADVANCED A. C. MACHINERY (3-3) Staff
Problems taken up deal with transient conditions in alternators, motors, and transformers. Applications of the methods of symmetrical components to unbalanced operating conditions. 2 lec., 2 lab. Prereq., 204.

351. AUTOMATIC PROCESS CONTROL AND INSTRUMENTATION (3) Cartland
Dynamic behavior of process control systems: pneumatic, hydraulic, chemical, electromagnetic. Measurements of transducers and feedback systems. Electronic data conversion and storage system. 2 lec., 2 lab. arranged. Prereq., 208, Math. 215.

361. SEMINAR IN ELECTRONIC ANALOG COMPUTERS (1) Niesse
A study of the basic principles of analog computation. System response determined by means of the analog computer. Prereq., Math. 215.

362. SEMINAR IN DIGITAL COMPUTER CIRCUITRY (1) G. E. Smith
Fundamentals of binary notation, Boolean algebra, and logical circuitry. The development of the characteristic equations of elementary circuits, of application equations, and the simultaneous solution of these to yield logical circuit combinations. Prereq., Math. 215.

371. SYNTHESIS OF TWO TERMINAL NETWORKS (3) Andersen
A study of immittance functions leading to the realization of positive-real functions as impedances or admittances of two terminal networks. 3 lec. Prereq., 234, Math. 216.

380. SOLID STATE DEVICES I (3) Staff
Crystal structure, electronic properties of conductors, semi-conductors and insulators from the quantum approach; solid state devices. 3 lec. Prereq., Math. 215, Physics 115. Not open to students taking Physics 360.

381. SOLID STATE DEVICES II (3) Staff
Continuation of 380. 3 lec. Prereq., 380 or Phys. 360.

390. SPECIAL INVESTIGATIONS (1 to 4) Quisenberry
Assignments in special areas of interest. Prereq., permission.

Courses listed primarily for graduate students. Refer to the graduate bulletin for detailed information.

401. ELECTRICAL STATION DESIGN (3)

403. ADVANCED ENGINEERING ANALYSIS (3)

404. NON LINEAR ANALYSIS (3)

405. SYSTEMS STABILITY STUDIES	(3)
406. ELECTROMECHANICAL STUDIES	(3)
410. NETWORK SYNTHESIS	(3)
411. SYNTHESIS OF FOUR TERMINAL NETWORKS	(3)
420. CONTROL SYSTEM SYNTHESIS	(3)
481. RESEARCH IN ELECTRICAL ENGINEERING	(1 to 4)
491, 492. ADVANCED SEMINAR IN ELECTRICAL ENGINEERING	(1, 1)
495. THESIS	(1 to 6)

MECHANICAL ENGINEERING

Professor P. H. Black (chairman)
 Associate Professors Adams, Hicks,
 Lausche, Smith
 Assistant Professors Beale, Sweeney

201. KINEMATICS	(3) Staff
A study of basic mechanisms including analytical and graphical analyses of linkages, cams, gears, and gear production methods. Prereq., C.E. 121 or with C.E. 121.	
213. METAL PROCESSING	(2) Black
Theory of machining and the mechanics of metal cutting; friction, wear, and lubrication in machining. Production processes. Prereq., I. A. 17 and/or with C.E. 120.	
221. THERMODYNAMICS I	(3) Beale
Energy, heat and work, reversibility, availability, first and second laws, entropy, real fluids and perfect gases. Prereq., Math. 102, Phys. 118.	
222. THERMODYNAMICS I LABORATORY	(1) Staff
An introductory laboratory course on physical measurements. Instrument theory and error in fluid flow, weight, rotative speed, density, viscosity, area and temperature measurements. Prereq., 221 or with 221.	
223. THERMODYNAMICS II	(3) Hicks
Fluid flow mixtures of gases, combustion calculations and refrigeration. Prereq., 221.	
224. THERMODYNAMICS II LABORATORY	(1) Staff
An intermediate laboratory course involving fluid flow, combustion calorimeters, Orsat analyzers, kinetic theory, proximate analysis, and refrigeration. Prereq., 223 or with 223.	
227. STEAM POWER PLANTS	(3) Lausche
Fuels, principles of combustion, stationary boilers, grates, stokers, furnaces, coal pulverizers, economizers, pre-heaters, superheaters, stacks, forced and induced draft, boiler-feed pumps, steam engines and turbines, and condensers. Prereq., 221, Math. 102. (1st sem., yearly.)	
229. HEAT-POWER LABORATORY	(2) Hicks
A senior laboratory course involving more complex experiments on turbines, engines, steam generators, heat-transfer equipment, rotating machinery, air compressors, and internal-combustion engines. Prereq., 223.	

302. DYNAMICS OF MACHINERY (3) Staff

Analytical and graphical studies of velocities and accelerations, and of static and inertia forces in machinery; engine force analysis and balancing of machinery. Prereq., 201 and C.E. 121. (2nd sem., yearly.)

303. MACHINE DESIGN I (3) Black

Application of mechanics, mechanism, materials, and mechanical processes to the design and selection of machine members and units of power transmission. Prereq., 201, 213, Ch.E. 211, C.E. 222.

304. MACHINE DESIGN II (3) Sweeney

Application of the work covered in 303 to the design of complete machines and sub-assemblies. Emphasis is on creative design. 6 lab. Prereq., 303 or with 303.

314. HEAT TRANSFER (3) Hicks

Basic concepts of conduction, convection, and radiation; steady and unsteady states, film coefficients, and dimensional analysis. Prereq., 221. (2nd sem., yearly.)

323. THERMODYNAMIC ANALYSIS (3) Hicks

An analytical study of gas and vapor power cycles, with and without reheat or regeneration. Discussion of effectiveness and availability. Fluid flow in rotating machines. Prereq., 221. (1st sem., yearly.)

324. GAS DYNAMICS (3) Beale

One dimensional flow of ideal gases, Isentropic flow, shocks, heat transfer and friction. Application to propulsion systems. Prereq., 223.

370. INDUSTRIAL PLANT DESIGN (3) Ralph Smith

Semester report covering complete design of an industrial plant for manufacturing a specific product. Includes market survey, manufacturing planning, plant layout, organization and financial analysis. Prereq., Mgt. 211, 321 and/or with 302.

384, 385. PROBLEMS IN THERMAL MACHINERY (4, 4) Beale

Current problems in thermal energy conversion: internal combustion engines, refrigeration, thermo-electric devices, gas turbines, rockets. Emphasis on individual reading and research. Prereq., permission.

390. SPECIAL INVESTIGATIONS (1 to 3) Staff

Prereq., permission.

392. ADVANCED MACHINE DESIGN (3) Black

Advanced problems in the design and analysis of machine members including consideration of stress propagation; stress analysis; fatigue and creep; residual stresses, Castigliano's theorem; and graphical analysis. Prereq., 303, permission.

393. LUBRICATION AND FRICTION (3) Black

Derivation of Reynold's equation and its application to bearings and gear teeth; load capacity and thermal equilibrium. Boundary lubrication, lubricant composition, surface finish, bearing materials and bearing performances. Prereq., Math. 215, C.E. 121, permission. (1st sem., yearly.)

394. MECHANICAL VIBRATIONS (3) Adams

The characteristic phenomena of mechanical vibrations encountered in machines and structures, and their quantitative investigation. Simple-harmonic motion; principal and normal modes of vibration; free and forced vibration; damping effects; critical speeds; balancing; electro-

mechanical analogy; principles of transmission and isolation of vibration; systems of several degrees of freedom; self-excited vibration; instrumentation. 2 lec., 2 lab. Prereq., C.E. 121, Math. 215.

395. ADVANCED THERMODYNAMICS (3) Beale

Thermodynamic properties and principles as explained by the nature of atoms and molecules, statistical mechanics and quantum theory. Equilibrium, free energy and irreversible processes and their application to engineering. Prereq., permission.

481. RESEARCH IN MECHANICAL ENGINEERING (1 to 4) Staff
Prereq., permission.

495. THESIS (1 to 6) Staff
Prereq., permission.

ENGLISH

Professors Kendall, King, Stone,
Summers, E. Thompson
Associate Professors Culbert, Kirchner, Swardson,
Wells, Whan (chairman)
Assistant Professors Brown, Butterworth, Fieler,
Hand, Harsh, Holmes, Jones, Kersnowski,
Knecht, Kramer, Marks, McDonnell, Morris,
Pickard, Purdum, Roe, Shipley, Stanton
Instructors Baird, Brogan, DeVries, DiPiero, Foster,
Harvey, Johansson, Lawrence, McCloskey,
Nusbaum, Price, Robinson, Smith, Solimine,
J. Thompson, Walston, Worthington
Lecturer Hemley

The major requirement for the A.B. degree consists of a minimum of 24 hours beyond English 3-4, distributed as follows:

- a) 6 hours of 100 courses:
 - 101. English Literature through Milton; *and*
 - 102. English Literature since Milton, *or*
 - 111. Chief American Writers;
- b) 6 hours of 200 courses:
 - 223. Shakespeare, *or* 224 Shakespeare; *and* at least 3 hours chosen from
 - 225. Interpretation of Drama,
 - 226. European Backgrounds,
 - 227. Interpretation of Fiction,
 - 228. Interpretation of Poetry,
 - 284. Mythology in English and American Literature,
 - 285. The Bible as Literature,
 - (English 264, 290, and 293 may not be counted toward the major);
- c) 12 hours of 300 courses, so chosen that at least three periods are represented; the group distribution is the responsibility of the major adviser.

Students wishing to major in Creative Writing will take a maximum of 12 hours of creative writing *in addition to* the regular requirements for the English major. At the discretion of the director, a student may substitute 3 hours of 293, Advanced Composition, for 3 hours of Creative Writing.

Honors work in the English Department is accomplished through a tutorial study program leading to an extensive writing project. Honors work begins on the initiative of the student, who, after notification of eligibility by the University but before his senior year, seeks out a faculty adviser and makes a case for independent study. After acceptance, the student proceeds to the study program prescribed by his adviser, completing the writing project in the second semester of his senior year. A final oral examination over the area of intensive study will complete the program. The student will receive six hours credit, which he may substitute for any of the 300-level major course requirements.

1. REMEDIAL ENGLISH

(3) Fiebler, staff

The fundamentals of composition. Minimum grade of D required to advance to 3. Credits and points not counted toward a degree. (Each sem.)

3-4. ENGLISH COMPOSITION

(3) Holmes, staff

Writing principles and practice. In English 3, a student analyzes expository prose and the English language; in English 4, literature. Qualified students are allowed to substitute six hours of 100 level courses for English Composition. Transfer students who have not completed six hours of composition will register for English 3. (English 3 each semester, English 4 each 2nd semester.)

101. ENGLISH LITERATURE THROUGH MILTON

(3) McDonnell, staff

Middle ages through the seventeenth century. Emphasis on Chaucer, Shakespeare, and Milton. Prereq., 4. (Each sem.)

102. ENGLISH LITERATURE SINCE MILTON

(3) McDonnell, staff

Eighteenth century to the present. Prereq., 4. (Each sem.)

111. CHIEF AMERICAN WRITERS

(3) Wells, staff

Emerson, Thoreau, Melville, Hawthorne, Poe, Whitman, and others. Prereq., 4. (Each sem.)

112. CHIEF AMERICAN WRITERS

(3) Wells, staff

Twain, James, Crane, Dickinson, Eliot, Faulkner, Frost, Hemingway, and others. Prereq., 4. (Each sem.)

223. SHAKESPEARE

(3) Kendall

The comedies and historical plays. Prereq., 3 hrs. beyond Eng. 4. (Each sem.)

224. SHAKESPEARE

(3) Kendall

The principal tragedies. Prereq., 3 hrs. beyond Eng. 4. (2nd sem., yearly.)

225. INTERPRETATION OF DRAMA

(3) Butterworth

Analysis of dramatic forms. Prereq., 3 hrs. beyond Eng. 4. (Each sem.)

226. EUROPEAN BACKGROUNDS

(3) Stone

European movements and works that have influenced English and American literature. Prereq., 3 hrs. beyond Eng. 4. (1st sem., yearly.)

227. INTERPRETATION OF FICTION

(3) Staff

Study of the forms and techniques of the art of fiction. Prereq., 3 hrs. beyond Eng. 4. (Each sem.)

228. INTERPRETATION OF POETRY

(3) Swardson

Intensive reading of selected poems from all periods of English and American literature. Prereq., 3 hrs. beyond Eng. 4. (Each sem.)

264. THE TEACHING OF HIGH SCHOOL ENGLISH (3) Brown
The content and methods of the presentation of grammar, composition and literature. Prereq., 4, junior standing. (Each sem.)

284. MYTHOLOGY IN ENGLISH AND AMERICAN LITERATURE (3) Butterworth
Classical and other mythologies and their effect upon English and American writers. Prereq., 3 hrs. beyond Eng. 4. (1st sem., yearly.)

285. BIBLE AS LITERATURE (3) Whan
Selected prose and poetry of the Old and New Testaments. Prereq., 3 hrs. beyond Eng. 4. (2nd sem., yearly.)

290. CREATIVE WRITING (3-3) Hemley, Summers
The fundamentals of fiction writing. Maximum credit, 6 hrs. Prereq., 4 and permission of the instructor. (Each sem.)

293. ADVANCED COMPOSITION (3) Marks, staff
Study of past and present forms of the essay; practice in a variety of non-fiction prose techniques; stress on the development of a mature prose style. Prereq., 4, junior standing. (Each sem.)

303. MEDIEVAL ENGLISH LITERATURE (3) Culbert
Langland, Malory, the *Gawain* poet, and others (excluding Chaucer); relevant Continental literature. Prereq., 12 hrs. (1st sem., 1964-65.)

311. HISTORY OF THE ENGLISH LANGUAGE (3) Harsh
Growth of the language; vocabulary and grammar of the various periods; selections from Early English. Prereq., 12 hrs. (1st sem., yearly.)

312. CHAUCER (3) Culbert
Early works: *The Canterbury Tales*; *Troilus and Criseyde*. Prereq., 12 hrs.; 311 recommended. (2nd sem., yearly.)

314. STRUCTURE OF AMERICAN ENGLISH (3) Roe
An introductory course in the sound structure and grammatical structure of American English. Prereq., 12 hrs. (2nd sem., yearly.)

321. SIXTEENTH CENTURY LITERATURE (3) Fieler
The English Renaissance and Humanism. Prereq., 12 hrs. beyond 4. (1st sem., 1965-66.)

322. ELIZABETHAN DRAMA (3) Kendall
The English drama from 1550 to 1642: predecessors, contemporaries, and immediate followers of Shakespeare. Prereq., 12 hrs. beyond 4. (1st sem., yearly.)

331. SEVENTEENTH CENTURY LITERATURE (3) Whan
Donne, Bacon, Herrick, Browne, and others. Prereq., 12 hrs. beyond 4. (1st sem., yearly.)

332. MILTON (3) Swardson
Prose, minor poetry, *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*. Prereq., 12 hrs. beyond 4. (2nd sem., yearly.)

333. RESTORATION (3) Purdum
A study of typical works and main figures, with emphasis on Dryden. Prereq., 12 hrs. beyond 4. (2nd sem., 1965-66.)

341. EIGHTEENTH CENTURY LITERATURE (3) Jones
Pope, Swift, Gay, Defoe, Addison, Steele; the novel; the drama.
Prereq., 12 hrs. beyond 4. (1st sem., yearly.)

342. EIGHTEENTH CENTURY LITERATURE (3) Jones
Boswell, Johnson, Goldsmith, Sheridan, Gray, Cowper, and others.
Prereq., 12 hrs. beyond 4. (2nd sem., yearly.)

344. EIGHTEENTH CENTURY NOVEL (3) Shipley
Background and predecessors; Defoe, Richardson, Fielding, Smollett, Sterne, and others; the Gothic novel. Prereq., 12 hrs. beyond 4. (2nd sem., 1964-65.)

345. NINETEENTH CENTURY ENGLISH NOVEL (3) Morris
Historical survey; critical analysis of novels by Scott, Austen, Thackeray, Dickens, Trollope, the Brontes, Eliot, Meredith, Hardy, Conrad, and others. Prereq., 12 hrs. beyond 4. (1st sem., yearly.)

351. PROSE AND POETRY OF THE ROMANTIC PERIOD (3) King
The philosophical background; Wordsworth, Coleridge, Byron, Shelley, Keats. Prereq., 12 hrs. beyond 4. (1st sem., yearly.)

352. VICTORIAN POETRY AND PROSE (3) King
Tennyson, Browning, Arnold, Carlyle, Newman, Ruskin and others.
Prereq., 12 hrs. beyond 4. (2nd sem., yearly.)

356. AMERICAN LITERATURE TO 1865 (3) Kirchner
Puritanism, romanticism and transcendentalism. Prereq., 12 hrs. beyond 4. (1st sem., yearly.)

360. AMERICAN LITERATURE (1865-1900) (3) Holmes
The rise of realism and naturalism. Prereq., 12 hrs. beyond 4. (2nd sem., yearly.)

361. TWENTIETH CENTURY FICTION (3) Staff
Joyce, Faulkner, Lawrence, Hemingway, and others. Prereq., 12 hrs. beyond 4. (2nd sem., yearly.)

362. TWENTIETH CENTURY DRAMA (3) E. Thompson
Shaw, O'Neill, Eliot, and others. Prereq., 12 hrs. beyond 4. (1st sem., yearly.)

368. TWENTIETH CENTURY POETRY (3) Summers
Eliot, Auden, Frost, Thomas, and others. Prereq., 12 hrs. beyond 4. (1st sem., yearly.)

369, 370. COLLOQUIUM (3, 3) Staff
Specific interdisciplinary problems to be assigned each semester.
Prereq., 12 hrs. beyond 4, senior or grad. standing. (Each sem.)

371. HISTORY OF LITERARY CRITICISM (3) E. Thompson
Aristotle to the present. Prereq., 12 hrs. beyond 4. (2nd sem., yearly.)

385. ORIENTATION IN TEACHING COLLEGE ENGLISH (1) Morris
Supervised introduction to teaching freshman composition and sophomore literature. Prereq., 12 hrs. beyond 4. (Given upon sufficient demand.)

390. STUDIES IN ENGLISH (1 to 3) Staff
Directed individual reading and research. (See also the Honors Program.) Maximum credit, 6 hrs. Prereq., 12 hrs. beyond 4, permission of the dept. chairman. (Each sem.)

391-392. MASTERS SEMINAR (1-1) E. Thompson
Problems of research and criticism. Open to Honors Program majors and required of candidates for the M.A. in English. (Yearly.)

393-394. CREATIVE WRITING SEMINAR (3-3) Summers
Criticism of manuscripts and discussion of problems of form. Prereq., 6 hrs. of creative writing, permission of the instructor. Admission only in the first semester, except for unusual reasons. (Yearly.)

402. ENGLISH LANGUAGE I (3) Roe
A historical survey of the sounds, inflections, syntax and vocabulary of Old and Middle English, with particular emphasis upon the language of Chaucer. Prereq., 405 and graduate standing. (2nd sem., yearly.)

403. ENGLISH LANGUAGE II (3) Roe
A historical survey of the sounds, inflections, syntax, and vocabulary of English from 1500 to the present, with particular emphasis upon the language of Shakespeare. Special development of the English language in the United States. Prereq., 402 or equivalent. (1st sem., yearly.)

405. INTRODUCTION TO OLD ENGLISH (3) Harsh
Studies in the language structure. Translation of selected prose. Prereq., graduate standing. (1st sem., yearly.)

406. OLD ENGLISH POETRY (3) Harsh
Translation and criticism of Old English verse. Prereq., 405 and graduate standing. (2nd sem., yearly.)

412. CHAUCER (3) Culbert
Intensive study of Chaucer and his times. Problems in Chaucerian scholarship. Prereq., graduate standing. (1st sem., 1965-66.)

424. SHAKESPEARE (3) McDonnell
Intensive study in specific critical and historical problems. Prereq., graduate standing. (2nd sem., yearly.)

432. MILTON (3) Swardson
Critical and historical studies in Milton. Prereq., graduate standing. (1st sem., 1964-65.)

450-451. PROSEMINAR (3-3) Staff
The proseminar is a two semester study, research, and writing program; the first semester will consist of a comprehensive reading into the subject matter area of the proseminal and investigations into the nature of literary problems relevant to this area and the selection of those problems appropriate to graduate writing. The second semester of the proseminal will be largely concerned with the writing of papers comparable in scope to the master's thesis or scholarly papers. Prereq., graduate standing. (Sections as required, each sem.)

457. AMERICAN MASTERS I (3) Stone
Studies in Poe, Melville, and others. Prereq., graduate standing. (1st sem., 1965-66.)

458. AMERICAN MASTERS II (3) Stone
Studies in James, Hemingway or Faulkner. Prereq., graduate standing. (1st sem., 1964-65.)

461-462. TWENTIETH CENTURY STUDIES (3-3) Wells, staff
Form, theme, and movement in twentieth century English and American literature. Prereq., graduate standing. (1st sem., yearly.)

470. SEMINAR IN LITERARY PROBLEMS (3) Staff

Intensive study of an author, period, form, or movement. Maximum hours to be accumulated in 470 to be determined by adviser. Prereq., graduate standing. (Each sem.)

473. STYLISTICS (3) Summers

Problems in the description and analysis of prose style. Prosodic theory. Literature and its writers. Prereq., graduate standing. (2nd sem., yearly.)

475. THEORY OF LITERATURE (3) E. Thompson

Investigations into the nature of literature and the problems of practical literary criticism. Prereq., graduate standing. (1st sem., yearly.)

481-482. PROBLEMS IN RESEARCH (3-3) Kendall

Theory and practice of literary and historical research. Prereq., graduate standing. (2nd sem., yearly.)

495. THESIS OR DISSERTATION (As recommended by dept.) Staff

The master's thesis is generally elected for 4 hours credit only; the doctoral dissertation credit may be elected for as many hours as required.

FINANCE Associate Professors Blythe, Fichthorn (chairman)
Assistant Professor McClary**110. MONEY AND BANKING** (3) Staff

(Same as Ec. 110.) Money and credit with emphasis on credit expansion and contraction by the Federal Reserve System and commercial banks. Study of monetary policies of the Federal Reserve and Treasury. Commercial bank lending and investing. Prereq., Ec. 12 or 102 or permission.

121. CORPORATION FINANCE (3) Staff

Financial analysis; planning the need for short-term and long-term funds; capital budgeting; short-term and intermediate-term financing from commercial banks, trade creditors, and other sources; stocks and bonds as sources of long-term funds; leasing; dividend policies. Prereq., 110 and Acct. 76.

201. PERSONAL FINANCE (2) Staff

Considered are such subjects as installment purchases, savings accounts, savings bonds, borrowing, life insurance, annuities, buying a home, investments in securities, investment companies, and taxes. Prereq., open only to juniors and seniors not working toward the Bachelor of Business Administration degree.

305. INVESTMENT PRINCIPLES (3) Fichthorn

Information for individual investors which can be used in the management of personal investment problems. Among the topics to be considered are investment risks and how they can be handled, yields, analysis of financial statements, and securities markets and their behavior. Prereq., 121.

306. SECURITY ANALYSIS

(3) Fichthorn

Problems of selecting securities for various investment purposes. Industry structure, volume-price-cost relationships, management, financial position, terms of the security contract, and market price behavior are studied to determine the attractiveness of a security. Portfolio construction is considered. Prereq., 305.

315. PROPERTY AND CASUALTY INSURANCE

(3) Staff

Analysis of the principal types of property and casualty insurance policies with respect to protection afforded the policyholder, his obligations, and cost of protection. Policies studied include fire and extended coverage, allied lines, business interruption, inland marine, automobile, general liability, theft, and bonds. The subjects of risk, insurance law, and multiple-peril policies are also covered. Prereq., 121.

316. LIFE INSURANCE

(2 or 3 as scheduled) Staff

The fundamental economics of life insurance. The principles and practices of life insurance including types of contracts, group and industrial insurance, and annuities. Prereq., Ec. 12 or 102, or permission.

343. MONEY AND CAPITAL MARKETS

(3) Blythe

Study of the flow of funds, interest-price movements, and the institutions of the money and capital markets, including trading in federal funds, open-market paper, mortgage loan market, corporate securities markets, and the markets for government securities and municipal obligations. Prereq., 121.

351. MONETARY THEORY

(3) Blythe

A study of the theories advanced to explain the relationship between money and its value, the relationship between money and the level of economic activity, allocations of funds among alternate uses, and interest and interest rates. Prereq., 121 or 12 hrs. economics.

352. INTERNATIONAL FINANCE

(3) Staff

An analysis of the problems in international finance; structure and development of the foreign exchange market. Foreign central banking and current developments in international financial cooperation. Prereq., 121.

356. PROBLEMS IN CORPORATION FINANCE

(3) Staff

This course is developed through the use of cases which deal with short-term financing, long-term financing, reserve and dividend policies, expansion and combination, refunding, recapitalization, and reorganization. Prereq., 121.

381. RESEARCH IN FINANCE

(1 to 8) Staff

Prereq., 9 hrs., Ec. 12 or 102, permission.

391. SEMINAR IN FINANCE

(2 to 4) Staff

Maximum credit in course, 10 hrs. Prereq., 9 hrs., Ec. 12 or 102, permission.

401-402. FINANCIAL MANAGEMENT

(3-3) Blythe

The finance function of business as viewed by the executive responsible for procuring and utilizing funds. Short-term financing is covered in 401; long-term financing is covered in 402. Case method. Prereq., 6 hrs. acct.

495. THESIS

(1 to 6) Staff

Prereq., permission.

Additional course: Ec. 315—Public Finance.

FINE ARTS

Professors Ahrendt, Brandes, Kantner, Leach,
 Seigfried, Staats, Taylor, Walker
 Associate Professors Jennings, Lane,
 Trisolini (chairman), Watkins, H. White
 Assistant Professors Conover, Hall, Kortlander,
 Olpp
 Lecturer Suess

General courses in the history and appreciation of the fine arts are open to all students who wish to broaden their knowledge of the field.

The minor requirements for the B.F.A. degree may be fulfilled by completing 18 hours in the following courses, including F.A. 17-18 or F.A. 117-118.

17-18. INTRODUCTION TO THE FINE ARTS (3-3) Trisolini, White

Analysis of the form, media, and content of the major arts, stressing interrelationship of architecture, the dance, dramatic art, music, literature, and painting through recognition of common art factors. Prereq., open to freshmen only.

117-118. INTRODUCTION TO THE FINE ARTS (3-3) Olpp

Same description as 17-18. Prereq., not open to freshmen.

121-122. HISTORY OF PAINTING AND SCULPTURE (3-3) Olpp

123-124. HISTORY OF MUSIC (3-3) Suess

Not open to students who have received credit in Mus. 5. Prereq., 18 or permission.

175-176. HISTORY OF ARCHITECTURE (3-3) Taylor

179-180. HISTORY OF THE VISUAL THEATRE (3-3) Hahne, Lane

203-204. HISTORY OF ORATORY (3-3) Staats

309. CLASSICAL RHETORICAL THEORY (3) Staats, Watkins

Prereq., 204 or permission.

321. HISTORY OF DRAMATIC CRITICISM (3) Conover, Walker

Prereq., 12 hrs. Dram. A. or equivalent advanced courses and permission.

322. DRAMATIC COMPOSITION (3) Walker

Prereq., 6 hrs. Dram. A. and 12 hrs. Eng. and/or journ.

324. CONTEMPORARY THEATRE (3) Lane

Prereq., 179 and 12 hrs. Dram. A. or the equivalent.

337. THE LITERATURE OF VOCAL MUSIC (2) Suess

Prereq., 124.

338. THE LITERATURE OF ORCHESTRAL MUSIC (2) Suess

Prereq., 124.

339. THE EVOLUTION OF THE OPERA (2) Suess

Prereq., 124.

340. THE LITERATURE OF PIANO MUSIC (2) Jennings

Prereq., 124.

344. CONTEMPORARY MUSIC (3) Suess

Prereq., 124, permission.

353. MASTERS OF THE THEATRE (3) Lane
Prereq., 180, Dram. A. 351, and permission.

359. ACTING FOR LYRIC DRAMA (3) Conover
Prereq., Dram. A. 304, Speech 34, Eng. 223.

371. LATIN AMERICAN ART (3) Olpp
Prereq., 122, 176, or permission.

375. ARCHITECTURE IN THE UNITED STATES (3) Everett
Prereq., 176 or permission.

377. NINETEENTH AND TWENTIETH CENTURY ARCHITECTURE (2) Taylor
Prereq., 18, 371, 375 or equivalents.

378. PHILOSOPHY OF ARCHITECTURE (2) Taylor
Prereq., 377; open to graduate students in Fine Arts by permission.

381. RESEARCH (1 to 5) Staff
Prereq., permission.

382. CUBISM, EXPRESSIONISM, AND LATER DEVELOPMENT (3) Kortlander, Leach
Prereq., 18 or permission.

385. CONTEMPORARY PUBLIC ADDRESS (3) Brandes
Prereq., permission.

390. SEMINAR IN ART HISTORY (2 or 3) Staff
Prereq., permission.

403. THE RENAISSANCE (3) Kortlander, Leach
Prereq., 18 or permission.

404. MANNERISM AND THE BAROQUE (3) Kortlander, Leach
Prereq., 18 or permission.

422. RENAISSANCE THEATRE (3) Conover
Prereq., Dram. A. majors or permission.

423. BAROQUE THEATRE (3) Walker
Prereq., Dram. A. majors or permission.

424. NINETEENTH CENTURY THEATRE (3) Walker
Prereq., Dram. A. majors or permission.

441. MUSIC OF THE MEDIEVAL AND RENAISSANCE PERIODS (3) Suess
Prereq., 124, permission.

442. MUSIC OF THE BAROQUE PERIOD (3) Suess
Prereq., 124, permission.

443. MUSIC OF THE CLASSIC AND ROMANTIC PERIODS (3) Suess
Prereq., 124, permission.

471. AMERICAN PUBLIC ADDRESS (3) Staats
Prereq., 204, Speech 112 or equivalent.

472. BRITISH AND FRENCH PUBLIC ADDRESS (3) Watkins
Prereq., 309 or equivalent.

473. RENAISSANCE THEATRICAL THEORY (3) Watkins
Prereq., senior speech majors or permission.

474. ARCHITECTURE TO 1600 (3) Olpp
Prereq., 176 or permission.

475. GREEK, ROMAN, AND PATRISTIC PUBLIC ADDRESS (3) Staats
Prereq., 204, 309, Hist. 115 or 120 or equivalent.

477. THE BAROQUE SPIRIT IN ARCHITECTURE (3) White
Prereq., 176.

481. IMPRESSIONISM AND POST-IMPRESSIONISM (3) Olpp
Prereq., 18 or permission.

491. SEMINAR IN FINE ARTS (1) Trisolini, staff
Prereq., permission. Maximum credit in course, 6 hrs.

495. THESIS OR DISSERTATION (As recommended by dept.) Staff
Prereq., permission.

FRENCH—See Modern Languages

GENERAL STUDIES

Social Science:
Assistant Professor Tryon

1-2. Biology — THE LIVING WORLD (3-3) Staff
Biol. 1 deals with the fundamental similarities and differences among plants and animals; their protoplasm, cells, tissues, and organs; and their physiological processes. Biol. 2 provides a survey of the principal plant and animal groups, emphasizing comparative structure, life histories, and classifications. Basic principles of heredity, evolution, and ecology are introduced.

Designed primarily for non-science majors. A maximum of 3 hrs. credit may be allowed toward a botany or zoology major, subject to the approval of the department. No credit allowed for students who have already completed Bot. 3-4 or Zool. 3-4. Not open to juniors and seniors. 2 lec., 2 lab. (Yearly.)

3, 4. Physical Science — THE PHYSICAL WORLD (3, 3) Staff
A general physical science course designed for non-science majors. 3 includes an introduction to astronomy, metrology, and topography; 4 includes chemistry and physics. Not open to juniors and seniors. 2 lec., 2 lab. (Yearly.)

7, 8. Humanities — GREAT BOOKS (3, 3) Fieder, Hultgren, McDonnell, Roe, Urdahl
Guided reading and discussion of literary masterpieces, ancient and modern; consideration of man's relation to God, right and wrong, society, and environment. Open to those who are eligible for or have taken Eng. 3. Not open to juniors and seniors. (Yearly.)

107, 108. Humanities — GREAT BOOKS (3, 3) Butterworth, Hultgren, Murphy
Similar to Humanities 7, 8, but designed for upperclassmen. Not open to freshmen or to those who have had Hum. 7 and 8. (Yearly.)

9, 10. Social Science — CITIZENSHIP IN THE MODERN WORLD

(3, 3) Fairfield, Kwan, Tryon

9 is an introductory analysis of human behavior, using several social sciences; 10 focuses upon the American democratic heritage and its chief competitors, communism and fascism. Not open to juniors and seniors. Recommended, but not required in sequence. (Yearly.)

209, 210. Social Science — CITIZENSHIP IN THE MODERN WORLD

(3, 3) Fairfield

Approaches to human behavior, personality, and culture through advanced readings from several fields. 210 stresses American culture and character and the political crisis in an international community. Not open to freshmen and sophomores nor to those who have had Soc. Sc. 9, 10. (Yearly.)

268. Biology — TEACHING OF BIOLOGY

(2) Stehr, Vermillion

A consideration of the purposes of high school biology, instructional materials, classroom methods, sources of laboratory equipment and supplies, and examination techniques. Prereq., 12 hrs. biological science. (2nd sem., yearly.)

297-298. American Studies — SEMINAR IN AMERICAN STUDIES (3-3) Staff

Selected problems in humanities and social sciences are examined critically from the point of view of the several disciplines. Prereq., American studies senior majors (see College of Arts and Sciences section of the catalog), and other seniors by permission.

GEOGRAPHY AND GEOLOGY

Professor Sturgeon (chairman)

Assistant Professors Baker, Fisher, Korsok,
Phelps, Winsberg
Instructor Wilhelm

GEOGRAPHY

The major requirement for the A.B. degree is 30 semester hours in approved departmental courses and Geol. 3-4, Geol. 111-112 and 223 are required for students specializing in physical geography.

3. ELEMENTS OF PHYSICAL GEOGRAPHY

(3) Staff

Study of the elements of the physical environment; earth-sun relationships, landforms, weather and climate, and soils. Not open to juniors and seniors, or students who have had Geog. 150. (Each sem.)

4. WORLD REGIONAL GEOGRAPHY

(3) Staff

Study of the world by regions wherein the physical background, land utilization, and cultural development are surveyed. Not open to juniors or seniors. (Each sem.)

104. WORLD'S REGIONS AND PEOPLE

(3) Korsok

Regional study of the world stressing population characteristics and economic development based on geographic factors. Not open to those who have had 4. (1st sem., yearly.)

111. ELEMENTS OF METEOROLOGY

(3) Wilhelm

General survey of the physical principles of weather. 2 lec., 2 lab. (1st sem., yearly.)

112. ELEMENTS OF CLIMATOLOGY

(3) Wilhelm

General survey of the physical principles of climate. 2 lec., 2 lab. Prereq., 3 or 111. (2nd sem., yearly.)

115. ECONOMIC GEOGRAPHY (3) Korsok
Study of the world distribution of man's basic economic activities: extractive, agricultural, and manufacturing industries. (Each sem.)

150. GEOGRAPHY AND ENVIRONMENT (3) Staff
Systematic survey of physical and cultural elements. Not open to students who have had 3. (Each sem.)

202. GEOGRAPHY OF THE UNITED STATES AND CANADA (3) Staff
Systematic and regional study of the U. S. and Canada: the physical environment, natural resources, agriculture, and cultural development. (Each sem.)

215. CARTOGRAPHY (3) Korsok
Elementary principles of map projections, map drawing, and graph making. Prereq., permission. (2nd sem., yearly.)

218. AIR PHOTO INTERPRETATION (3) Winsberg
Survey of principles and techniques used in air photo interpretation as practiced by geographers, geologists, community planners, engineers, etc. Prereq., 6 hrs. in major, permission. (1st sem., yearly.)

231. GEOGRAPHY OF OHIO (3) Korsok
Detailed regional study of the physical background and economic development. (1st sem., 1964-65.)

232. CONSERVATION OF THE NATURAL RESOURCES (3) Staff
Problems in the conservation of soils, water, minerals, forests, and wild life as related to land use. The interrelations of these various factors and their educational significance are emphasized. Field trips. (2nd sem., yearly.)

301. GEOGRAPHY OF THE SOVIET UNION (3) Korsok
Physical, cultural, and economic geography of the Soviet Union. Prereq., 3 and 4, or 150*. (1st sem., 1964-65.)

305. GEOGRAPHY OF LATIN AMERICA (3) Winsberg
Similar treatment as in 301. Prereq., 3 and 4, or 150*. (1st sem., yearly.)

308. GEOGRAPHY OF EUROPE (3) Korsok
Similar treatment as in 301. Prereq., 3 and 4, or 150*. (2nd sem., 1965-66.)

312. GEOGRAPHY OF SOUTHERN ASIA AND ISLANDS (3) Korsok
Similar treatment as in 301. Prereq., 3 and 4, or 150*. (2nd sem., 1965-66.)

322. GEOGRAPHY OF AFRICA (3) Wilhelm
Similar treatment as in 301. Prereq., 3 and 4, or 150.* (2nd sem., 1965-66.)

360. POLITICAL GEOGRAPHY (3) Korsok
Geographic basis of national strength or weakness. Physical and cultural influence upon historical development is emphasized. Prereq., 6 hrs.* (2nd sem., yearly.)

370. URBAN GEOGRAPHY (3) Korsok
Study of geographic factors in urban areas stressing locational and economic factors. Prereq., 6 hrs.* (1st sem., 1964-65.)

*Upperclassmen and graduate students in related fields, such as history, economics, government, and sociology may take the course by permission.

382. GEOGRAPHICAL STUDIES (1 to 4 a semester in any of the following) Staff
 Supervised studies in fundamentals of geographic research. Maximum credit in any one area, 8 hrs. Prereq., 12 hrs. permission. (Each sem.)

- a. *Cartography*. Korsok
- b. *Conservation of Natural Resources*. Staff
- c. *Economic Geography*. Korsok
- d. *Meteorology and Climatology*. Wilhelm
- e. *Physiography* (See Geol. 383a). Staff
- f. *Political Geography*. Korsok
- g. *Regional Geography*. Staff
- h. *Urban Geography*. Korsok

391, 392. SEMINAR IN GEOGRAPHY (1, 1) Staff
 Attendance required of all senior major students. Maximum credit in course, 2 hrs. (Yearly.)

GEOLOGY

Requirements for the B.S. degree and minimum preparation for a professional career in geology include at least 36 semester hours in departmental courses numbered above 100, including 111, 112, 131, 132, 223, 241, 251, 252, 282, 313, 314, and 362 and Geog. 4, 215, and 218. In addition the following extra-departmental work is required: Chem. 3, 4, and 99; Math. 14 or 15; Physics 5, 6; C.E. 10, and field camp recommended.

Minimum requirements for the A.B. degree include the above departmental courses except 282 and the following extra-departmental courses: Chem. 3, 4, and 99; Math. 14 or 15; Physics 5, 6 recommended.

3-4. ELEMENTS OF GEOLOGY (3-3) Staff
 Studies of earth features, processes, and principles and an introduction to earth history. 2 lec., 2 lab., field trips. 3 not open to students who have had 103. (Each sem.)

102. COMMON MINERALS, ROCKS, AND FOSSILS (3) Staff
 Introduction to study and identification of common minerals and rocks and common groups of fossils. 2 lec., 2 lab., field trips. Not open to students who have had 3, 4, or 103. (2nd sem., yearly.)

103. ENGINEERING GEOLOGY (3) Staff
 Geologic principles and processes as applied to engineering materials. 2 lec., 2 lab., field trips. Not open to students who have had 3. (1st sem., yearly.)

111-112. HISTORICAL GEOLOGY (3-3) Sturgeon
 Earth history emphasizing geologic development and stratigraphy of North America. 2 lec., 2 lab., field trips. Prereq., 4. (Yearly.)

131. MINERALOGY (3) Phelps
 Elements of crystallography and introduction to descriptive mineralogy. 2 lec., 1 lab. Prereq., 4, Chem. 4, 99. (1st sem., yearly.)

132. MINERALOGY (3) Phelps
 Determinative mineralogy using physical and chemical means. 1 lec., 2 lab. Prereq., 131. (2nd sem., yearly.)

223. PRINCIPLES OF GEOMORPHOLOGY (3) Baker

Study of the origin of land forms and geomorphic structures of the world. 2 lec., 2 lab., field trips. Prereq., 10 hrs. including 112. Upper-classmen in related fields with 6 hrs. may take the course by permission. (1st sem., yearly.)

224. GLACIAL GEOLOGY (3) Baker

Introduction to study of glaciers and glaciation. 2 lec., 2 lab., and field trips. Prereq., 112. (2nd sem., 1965-66.)

241. PETROLOGY (3) Phelps

Study of rocks emphasizing origin, composition, field classification, and identification. 2 lec., 2 lab. Prereq., 132. (1st sem., yearly.)

251-252. INVERTEBRATE PALEONTOLOGY (3-3) Sturgeon

Introduction to fossils, emphasizing their morphology, classification, identification, and distribution. 2 lec., 2 lab., field trips. Prereq., 112. (Yearly.)

282. GEOLOGIC FIELD METHODS (3) Phelps

Introduction to the use of hand level, Brunton pocket transit, and plane table and telescopic alidade. 1 lec., field work. Prereq., 12 hrs., C. E. 10 recommended, permission. (2nd sem., yearly.)

313. PRINCIPLES OF SEDIMENTATION (3) Fisher

Processes and principles involved in study of sediments. 2 lec., 2 lab., field trips. Prereq., 112, 241. (1st sem., yearly.)

314. PRINCIPLES OF STRATIGRAPHY (3) Sturgeon

Materials and principles involved in the study of stratigraphy. 2 lec., 2 lab., field trips. Prereq., 252, 313. (2nd sem., yearly.)

315. GEOLOGY OF OHIO (2) Sturgeon

Introduction to its physiography, stratigraphy, and economic geology. 2 lec., field trips. Prereq., 112. (2nd sem., 1965-66.)

333. OPTICAL CRYSTALLOGRAPHY (2) Fisher

Study of optical behavior of minerals by use of the petrographic microscope. 1 lec., 2 lab. Prereq., 132, Chem. 4, 99, Phys. 6. (1st sem., 1964-65.)

342. PETROGRAPHIC METHODS (3) Fisher

Introduction to the identification of rocks by thin-sections and the petrographic microscope. 2 lec., 2 lab. Prereq., 241, 333. (2nd sem., 1964-65.)

353. MICROPALAEONTOLOGY (3) Sturgeon

Introduction to microscopic fossils. 2 lec., 2 lab., field trips. Prereq., 251. (1st sem., 1965-66.)

362. STRUCTURAL GEOLOGY (3) Baker, Phelps

Study and interpretation of rock structures caused by earth movements. 2 lec., 2 lab., field trips. Prereq., 112, Math. 14 or 15. (2nd sem., yearly.)

371. ECONOMIC GEOLOGY—Metals (3) Phelps

Principles of metallic mineral deposition and a survey of the ore deposits of the world. 2 lec., 2 lab. Prereq., 241. (1st sem., 1964-65.)

372. ECONOMIC GEOLOGY—Non-metals (3) Fisher
 Principles of non-metallic mineral deposition and a survey of non-metallic and mineral fuel deposits of the world. 2 lec., 2 lab., field trips. Prereq., 241. (2nd sem., 1964-65.)

374. PRINCIPLES OF PETROLEUM GEOLOGY (3) Fisher
 Principles of the origin, migration, and accumulation of petroleum and a survey of the major petroleum basins of the world. Prereq., 362. (2nd sem., 1965-66.)

376. GROUND WATER GEOLOGY (3) Baker
 Study of the principles governing the occurrence, movement, and recovery of ground water. Prereq., 314. (1st sem., 1965-66.)

383. GEOLOGIC STUDIES (1 to 4 hrs. a semester in any of the following) Staff
 Supervised studies in fundamentals of geologic research. Maximum credit in any one area, 8 hrs. Prereq., 12 hrs., permission.
 a. *Glacial Geology and Physiography.* Baker
 b. *Ground Water.* Baker
 c. *Mineralogy, Petrology, or Economic Geology.* Fisher, Phelps
 d. *Paleontology.* Sturgeon
 e. *Sedimentation and Stratigraphy.* Fisher, Phelps, Sturgeon
 f. *Structural Geology.* Baker, Phelps
 g. *Tectonics.* Baker, Fisher, Phelps

385, 386. GEOLOGIC FIELD RECONNAISSANCE (2 or 3, 2 or 3) Staff
 Vacation period geologic field trips to selected areas in North America with pertinent conferences, readings, and accepted reports. Prereq., 15 hrs., permission. Maximum credit in course, 6 hrs.

391, 392. SEMINAR IN GEOLOGY (1, 1) Staff
 Attendance required of all graduate and senior major students. Maximum credit in course, 3 hrs. (Yearly.)

415. REGIONAL STRATIGRAPHY—EASTERN NORTH AMERICA (3) Sturgeon
 Detailed stratigraphy east of the Great Plains. 2 lec., 2 lab. Prereq., 12 hrs. above 100, including 112 and 314. (1st sem., 1964-65.)

416. REGIONAL STRATIGRAPHY—WESTERN NORTH AMERICA (3) Phelps
 Similar to 415 but covering the Great Plains and Cordilleran regions. 2 lec., 2 lab. Prereq., 12 hrs. above 100, including 112 and 314. (2nd sem., 1964-65.)

428. PHYSIOGRAPHY OF NORTH AMERICA (3) Baker
 Study of surface features and related significant geologic factors of North America. Prereq., 223, 314, 362. (2nd sem., 1965-66.)

463. GEOTECTONICS (3) Staff
 Study of mountain building, continental drift, island arcs, and comparison of rock structures in different mountain types. Prereq., 314, 362. (1st sem., 1965-66.)

493. RESEARCH IN GEOLOGY (1 to 4) Staff
 Maximum credit in course, 6 hrs. Prereq., 18 hrs., permission. (Yearly.)

495. THESIS (1 to 6) Staff
 Maximum credit in course, 6 hrs. Prereq., permission.

GERMAN—See Modern Languages**GOVERNMENT**

Associate Professors Collins,
Elsbree (chairman), Fairfield, Gusteson
Assistant Professors Bald, Tucker
Instructor Prisley

The major requirement for the A.B. degree is 24 hours, including Govt. 1 and 2. Recommended electives include Economics 11-12 or 101-102; English 293; and History 101, 102.

1, 2. AMERICAN GOVERNMENT

(3, 3) Staff

Govt. 1 includes the political and constitutional development, the organization and functioning of the national government. Govt. 2 is concerned with the organization and functioning of state and local governments. Not open to juniors and seniors. (Yearly.)

101, 102. COMPARATIVE GOVERNMENT

(3, 3) Bald, Elsbree

The government and politics of major foreign powers, including organization, procedures, popular representation, and the impact of social and economic forces. 101 includes Great Britain, Germany and a non-Western state. 102 includes France and the Soviet Union. (Yearly.)

106. CURRENT POLITICAL AND SOCIAL PROBLEMS

(2) Staff

Analysis of issues pertaining to American labor, agriculture, foreign policy, and civil liberties and their governmental implications. Not open to those who have had six or more hours of government. (Yearly.)

110. THE PROCESS OF PUBLIC POLICY FORMATION

(3) Tucker

An analysis of selected executive agencies of the national government and their role in public policy formation. Particular attention is given to the role of the military, regulatory and promotional functions, and group interests. Prereq., 1.

203. MUNICIPAL GOVERNMENT AND ADMINISTRATION

(3) Tucker

The creation and legal powers of cities; municipal elections and politics; an analysis of the administrative functions and problems of city government. Prereq., 6 hrs. (Yearly.)

216. INTERNATIONAL RELATIONS

(3) Bald

Survey of the modern nation state system and of recent trends in interstate relations; study of basic forces and conditions affecting international politics and the formulation of national foreign policies. (Yearly.)

217. CURRENT INTERNATIONAL PROBLEMS

(3) Bald

An analysis of selected contemporary issues illustrating basic problems in international relations. Prereq., 6 hrs. govt. or hist.

301, 302. AMERICAN CONSTITUTIONAL LAW

(2, 2) Gusteson

Principles underlying American constitutional government. Consideration of leading cases, with special reference to interpretation of the Constitution of the United States. Prereq., 9 hrs. govt. or hist. (Yearly.)

305. AMERICAN POLITICAL PARTIES

(3) Gusteson

The origin, growth, organization, and methods of parties; the role of parties in a democracy; the influence of pressure groups. Prereq., 9 hrs. (Yearly.)

308. LEGISLATURES AND LEGISLATIVE PROCESSES (3) Gusteson
Major problems of representative government with respect to legislative assemblies. Analysis of structure, organization, and procedures. Interrelationship of legislatures with other forces in society. Prereq., 9 hrs. (Yearly.)

309. LAW ENFORCEMENT (3) Gusteson
Survey and analysis of the problems of the American policing, prosecutory, judicial, and correctional systems. Emphasis on both policy making and administration. Prereq., 9 hrs. (Yearly.)

323. INTERNATIONAL LAW AND ORGANIZATION (3) Bold
Analysis of the legal principles and practices governing the relations between states; study of the development, structure, and functions of international organizations, with particular emphasis on the United Nations. Prereq., Govt. 216 or 217. (2nd sem., yearly.)

331. FAR EASTERN GOVERNMENTS AND POLITICS (3) Elsbree
A study of the governmental organization, political parties, and foreign policies of China and Japan. Political developments since 1945 will be emphasized. Prereq., 9 hrs. (Yearly.)

341. AMERICAN FOREIGN POLICY (3) Collins
A consideration of the problems involved in the formulation and execution of foreign policy. Particular emphasis is given to the current problems of American policy. Prereq., 9 hrs. govt. or hist. (2nd sem., yearly.)

343. AMERICAN POLITICAL THOUGHT (3) Fairfield
The origin and development of American political ideas from colonial times to the present, focusing upon concepts of democracy, liberty, and property. Prereq., 9 hrs. govt. or hist. (Yearly.)

344. RECENT POLITICAL THOUGHT (3) Elsbree
Political ideas of the nineteenth and twentieth centuries with the emphasis on Europe; liberalism, socialism, communism, and fascism. Prereq., 9 hrs., or 3 hrs. govt. and 6 hrs. Eur. Hist. (Yearly.)

348. PUBLIC ADMINISTRATION (3) Collins
The theory and practice of administrative organization, and control of administrative action, with emphasis on financial and public personnel administration. Basic course for preparation for civil service examinations. Prereq., 9 hrs. (Yearly.)

349. ADMINISTRATIVE LAW (3) Collins
Organization, functions, procedures, and administrative problems of selected national regulatory agencies; principles affecting administrative discretion; administrative power over private rights; enforcement and judicial control of administrative action. Prereq., 9 hrs. (Yearly.)

370. STUDIES IN GOVERNMENT (1 to 3) Staff
Intensive study of special topics in the field of government and political science. Areas of study include American government and politics, comparative government, international affairs, political parties, political theory, public administration, and public law. Maximum credit in course, 12 hrs. Prereq., 12 hrs., permission. (Each sem.)

391. SEMINAR IN GOVERNMENT (1 to 3) Staff
Maximum credit in course, 6 hrs. Prereq., 15 hrs.

398. PROBLEMS IN GOVERNMENT	(1 to 3) Staff
Research or directed reading based upon the student's special interest. Maximum credit in course, 6 hrs. Prereq., 15 hrs., permission.	
401. RESEARCH IN GOVERNMENT	(1 to 3) Staff
Maximum credit in course, 6 hrs. Prereq., 15 hrs., permission.	

495. THESIS	(1 to 6) Staff
Prereq., permission.	

HISTORY	Professors Cady, Gustavson (chairman), Stevens Associate Professors Daniel, Gilmore, Lobdell, Mayes Assistant Professors Hehn, McCormick, Steiner Instructor Doxsee
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The major requirement for the A.B. degree consists of a minimum of 24 hours, including Hist. 1, 2, 101, 102, (unless excused as the result of taking a placement test), and at least two courses above 300 selected from more than one field of history. Hist. 1, 2 should be taken during the freshman year. Courses in economics, geography, government, and sociology are suggested as electives, with specific courses to be selected in consultation with the adviser.

1, 2. WESTERN CIVILIZATION IN MODERN TIMES	(3, 3) Staff
Hist. 1 covers the period from 1450 to 1815. It stresses the Renaissance, the Protestant Reformation, the agricultural and commercial revolutions, European expansion, the French Revolution, and Napoleonic Era. Hist. 2 places emphasis on the industrial revolution, the unification of Italy and Germany, modern imperialism in Africa and Asia, the rise of Japan, the United States as a world power, World War I, the rise of totalitarian states, World War II, and efforts toward world organization. Not open to juniors and seniors. (Each sem.)	

101, 102. HISTORY OF THE UNITED STATES	(3, 3) Staff
A survey course covering the political, diplomatic, social, and economic development of American history. Hist. 101 covers the period to 1865; Hist. 102, the period from 1865 to the present. (Each sem.)	

105. HISTORY OF OHIO	(3) Steiner
A survey from earliest times to the present: social, economic, and political. (Each sem.)	

115. ANCIENT HISTORY	(3) Doxsee
A survey of the origins of Western Civilization from prehistoric man to the disintegration of the Roman Empire, embracing a general study of the early civilizations of the Fertile Crescent and the Greco-Roman world. (Each sem.)	

120. MEDIEVAL HISTORY	(3) Mayes
A study of social, economic, and cultural forces of the Middle ages with emphasis on the institutional and cultural life from the fall of Rome to the Renaissance. (2nd sem., yearly.)	

125, 126. ENGLISH HISTORY	(3, 3) Cady, Mayes
Designed for English majors and prelegal students as well as for the general student of history. The first semester covers the period to 1688 and stresses institutional aspects of medieval England and the social, political, and constitutional developments in the Tudor and Stuart periods. The second semester emphasizes cultural and economic developments, the British empire, constitutional and social reforms, and the impact of World Wars I and II. (Yearly.)	

145. LATIN AMERICAN HISTORY: The Colonial Period. (3) Gilmore

From conquest to independence: the founding, development, and loss of the Spanish and Portuguese empires in America. (1st sem., yearly.)

146. LATIN AMERICAN HISTORY: The National Period. (3) Gilmore

The organization and development of the Latin American nations in the nineteenth and twentieth centuries. Emphasis is placed on Argentina, Brazil, Mexico, Colombia, and Peru. (2nd sem., yearly.)

240. HISTORY OF CANADA (2) Mayes

An introduction to Canada: a study of its resources, its founding and development under France and England, and its emergence as an important modern state. (2nd sem., 1965-66.)

248. HISTORY AND CIVILIZATIONS OF EASTERN ASIA (3) Cady

Concerns China, Korea, and Japan to the nineteenth century: governmental forms, social and economic institutions, and value concepts considered in their historical contexts. Special attention is given to cultural borrowings from India by China and Southeast Asia, and from China by Japan. Prereq., 6 hrs., including 1. (1st sem., yearly.)

269. TEACHING OF THE SOCIAL STUDIES IN JUNIOR AND SENIOR HIGH SCHOOLS (3) C. Roberts

The nature, development, purpose, and value of the social studies, with emphasis on methods and techniques of instruction in this field. Problems of curriculum reorganization, unit planning, materials of instruction, and evaluation. Prereq., 12 hrs. social sciences. (Each sem.)

301. COLONIAL AMERICA (3) Steiner

The discovery and colonization of America, relation of the colonies to England, and the daily life of colonial Americans. Prereq., 6 hrs., including 101. (1st sem., yearly.)

302. THE REVOLUTIONARY ERA (3) Stevens

An intensive study of the causes of the Revolution, the struggle for independence, the movement for a new government, and the framing of the Constitution. Prereq., 6 hrs., including 101. (2nd sem., yearly.)

310. SECTIONAL CONTROVERSY—1820-1850 (2) Stevens

Slavery and political controversy, rise of the common man, rural conditions, transportation, immigration, education, the factory system, reform agitation, territorial annexations, and growth of nationality. Prereq., 6 hrs., including 101. (1st sem., yearly.)

312. THE CIVIL WAR AND RECONSTRUCTION (3) Stevens

The sections of the United States in 1850, forces leading to war, and the great conflict; Reconstruction, its background and development; restoration of home rule in the South, and general cultural and economic development. Prereq., 6 hrs., including 101. (2nd sem., yearly.)

315. FOUNDATIONS OF MODERN AMERICA, 1877-1901 (3) McCormick

An intensive examination of the origins of modern America, emphasizing internal industrialization and external expansion and their combined impact upon economic, social, and political life in American society. Prereq., 6 hrs. (2nd sem., yearly.)

316. HISTORY OF THE INDUSTRIAL REVOLUTION IN THE UNITED STATES — 1850-1941 (3) Daniel
Origins of the factory system in America, the impact of the Civil War, rise of heavy industry, problems of financing and control, influence of the progressive era, resurgence of big business during wartime and the twenties, and industrial problems of the depression period. Prereq., 6 hrs., including 102. (2nd sem., yearly.)

321. THE UNITED STATES IN RECENT TIMES — 1898-1928 (3) Lobdell
American imperialism, the Progressive Era, World War I, retreat from world responsibility and the post-war prosperity period. Prereq., 6 hrs., including 102. (1st sem., yearly.)

322. THE UNITED STATES IN RECENT TIMES—SINCE 1928 (3) Lobdell
The great depression, the New Deal, abandonment of isolation, World War II, and post-war crises and problems. Prereq., 6 hrs., including 102. (2nd sem., yearly.)

324. UNITED STATES FOREIGN RELATIONS SINCE 1865 (3) McCormick
A survey of American foreign relations since 1865, emphasizing American diplomacy as a composite reaction to external forces in Latin America, the Far East, and Europe and to internal demands of American society. Prereq., 6 hrs. (1st sem., yearly.)

325. THE WESTWARD MOVEMENT (3) Daniel, Stevens
Expansion from the Atlantic to the Pacific. Explorations, Indian trade, land policies, pioneer life, territorial acquisitions and state making, trails and railroads to the Far West, rise of cowboy land, types of later frontiers, and influence of the West upon American ideals and institutions. Prereq., 6 hrs., including 101. (2nd sem., yearly.)

331, 332. SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES (3, 3) Daniel
Role of minorities, class structure, and religion in forming American society; development of American painting, architecture, music, literature, education, and science as expressions of American culture. Prereq., 6 hrs. (Yearly.)

341. THE MIDDLE WEST (3) Stevens
Development of political, economic, and social institutions and attitudes characteristic of Ohio and the Middle West since 1787. Emphasis on twentieth century community relationships, problems, and forms of behavior. Prereq., 101, 102. (1st sem., 1965-66.)

347. RECENT LATIN AMERICA (3) Gilmore
Social and political change reflecting the needs and rivalries of an emerging middle class, organized labor, the armed forces, economic associations, and other pressure groups. The role of new parties and ideologies in guiding and stimulating change in the Latin-American nations will be analyzed. Prereq., 6 hrs. (1st sem., yearly.)

348. PRO-SEMINAR IN CONTEMPORARY LATIN AMERICA (3) Gilmore
Directed reading and analysis of the current scene. Prereq., 347., except for grad. students. (2nd sem., yearly.)

350. THE FAR EAST IN MODERN TIMES (3) Cady
Manchu China and Tokugawa Japan from the early nineteenth century; the opening of China; Meiji Restoration in Japan; failure of China to adjust to external pressures; Japan's emergence as a world power; Manchu collapse and abortive efforts to reconstitute the state; Japanese political developments to 1930; defeat of Japan's effort at hegemony over Eastern Asia; Communist triumph in China. Prereq., 2 or 102. (2nd sem., yearly.)

352. SOUTHEAST ASIA

(3) Cady

Indianization of Southeast Asia, Hindu, Buddhist, Islamic; cultural centers of historic Southeast Asia; the impact of Western colonialism on the area; liquidation of colonial rule and problems faced by the new world of Southeast Asia. Prereq., 6 hrs. (1st sem., yearly.)

356. THE MIDDLE EAST IN MODERN TIMES

(3) Doxsee

The decline of the Ottoman Empire during the course of the nineteenth century; the emergence and evolution of the successor states of the Middle East; contemporary economic, social, and political problems of the region. Prereq., 6 hrs., including 2. (1st sem., yearly.)

361. THE RENAISSANCE AND THE REFORMATION

(3) Mayes

A study of Europe in transition from the fourteenth to the sixteenth centuries, with special emphasis on Italy. The course will examine the rise of the national states, the commercial revolution, humanism, art and architecture, the later medieval church, the rise of Protestantism, and the Catholic Reformation. Prereq., 6 hrs., including 1. (2nd sem., 1965-66.)

363. TUDOR AND STUART ENGLAND

(3) Mayes

England in the sixteenth and seventeenth centuries; a study of Tudor absolutism, the English Reformation, the constitutional crises (parliament versus the Crown) of the Stuart period, the republican experiment under Cromwell, the beginnings of empire, and the major cultural and economic developments. Prereq., 6 hrs., including 1 or 125. (2nd sem., 1964-65).

365. FRENCH REVOLUTION

(3) Gustavson

An intensive study of such historical factors as causality, influence of ideology, institutional organization, and the role of the individual in a great social upheaval. Pro-Seminar. Prereq., 15 hrs. (2nd sem., 1964-65).

366. FRANCE SINCE 1815

(3) Hehn

Socio-political, institutional and cultural evolution; the revolutionary and authoritarian traditions under monarchy and republic; the role of France as a Great power. Prereq., 6 hrs., including 2. (2nd sem., yearly.)

370. EUROPE BETWEEN WORLD WARS

(3) Gustavson

Fascism, communism, and the twenty-year armistice between 1919 and 1939. Prereq., 6 hrs., including 2. (1st sem., 1965-66.)

372. CONTEMPORARY EUROPE

(3) Gustavson

Problems of peace and war in Europe since 1939. Prereq., 6 hrs., including 2. (2nd sem., 1965-66.)

375. HISTORY OF RUSSIA

(3) Gustavson

A survey from the earliest times to 1914. The Russian background of communist ideas, organization, and practices is stressed. Prereq., 6 hrs. (1st sem., yearly.)

376. THE SOVIET UNION

(3) Gustavson

A history of the U.S.S.R., with emphasis on internal affairs of the Communist regime. Prereq., 6 hrs., including 2. (2nd sem., yearly.)

378. THE HISTORY OF MODERN GERMANY

(3) Gustavson

A survey of Germany and central Europe since the Age of Napoleon. Prereq., 6 hrs., including 2. (1st sem., 1964-65.)

379. THE BALKANS (3) Hehn

Brief historical background of the Balkan peoples; conflicting nationalisms and big power rivalries; Sovietization, Titoism, and 1956 Hungarian Revolution. Prereq., 6 hrs., including 2. (1st sem., yearly.)

387. AFRICA IN MODERN TIMES (3) Cady, Doxsee

African geography, resources, and peoples; European contacts prior to 1860; explorers and missionaries; partitioning to 1914; recent political and economic developments; problems of racial and cultural adjustment; prospects of emerging African states. Prereq., 6 hrs. (2nd sem., yearly.)

390. REPRESENTATIVE HISTORIANS AND THEIR WRITINGS (2 or 3 as scheduled) Stevens

Typical historians from the time of Herodotus with readings from their masterpieces to illustrate schools of interpretation, philosophies of history, and the development of historical writing. Prereq., 12 hrs. (2nd sem., 1965-66.)

392. PROBLEMS IN HISTORY (1 to 3) Staff

Intensive individual work either in research or in systematic reading along the lines of the student's special interest under the supervision of a member of the staff. Prereq., 15 hrs., permission. Maximum credit in course, 6 hrs. (Each sem.)

395. HISTORIOGRAPHY AND METHODOLOGY (4) Mayes, staff

An introduction to the technique of historical investigation with practice in historical criticism and writing. Prereq., 15 hrs. (1st sem., yearly.)

398. SEMINAR IN HISTORY (1 to 3) Cady

Reports based upon original research with group discussion and criticism. Maximum credit in course, 6 hrs. Prereq., 15 hrs., permission. (2nd sem., yearly.)

495. THESIS (3 to 6) Staff

Prereq., permission.

HOME ECONOMICS Professors V. M. Roberts (director), Womble
 Associate Professors Bane, Pearce, Sellers
 Assistant Professors Cowan, Davis, Langford
 Lewis, Macauley, Nehls
 Instructors Kimball, Lockard
 Part-Time Instructors Black, V. Cady, D. Williams
 State District Supervisor B. Reed

The School of Home Economics offers work in the following fields: (1) Child Development and Family Life Education, (2) Foods and Nutrition, (3) Home Economics Education and Extension, (4) Housing and Home Management, (5) Food Service Management, and (6) Textiles and Clothing.

Students majoring in home economics take the basic courses in home economics and courses in general education during the first two years and follow a professional curriculum during the junior and senior years. Requirements for a Bachelor of Science in Home Economics degree are indicated under the School of Home Economics section of the catalog.

Students who are majoring in other departments may minor in an area of home economics or elect any of the basic courses: 1-2 or 12; 3-4 or 14; 5, 7, 106, 108, 110, 125 or 161.

HOME ECONOMICS

51. ORIENTATION IN HOME ECONOMICS

(1) Roberts, assisted by specialists in each field

The opportunities for careers in the various fields of home economics. Vocational testing, guidance, and counseling.

161. HOME NURSING AND FAMILY HEALTH

(2) Black

Training in simple procedures in the care of the sick and minor accidents in the home. A study of disease prevention and health promotion for the family.

360. WORKSHOPS IN HOME ECONOMICS

(1 or 2) Staff

Special workshops to aid the home economics teacher. The areas of study include:

- a. Home Economics Education
- b. Clothing and Textiles
- c. Foods and Nutrition
- d. Child Development
- e. Consumer Education
- f. Home Furnishings
- g. Home Management
- h. Household Equipment
- i. School Lunch Management
- j. Family Life Education

Maximum credit toward graduate degree, 6 hrs. Prereq., 268 or equivalent; teaching experience or qualifications for certification to teach home economics. (Summer only.)

381. RESEARCH IN HOME ECONOMICS

(2 or 3) Staff

A project course in which the student carries on independent investigations under the guidance of the instructor. Maximum credit in course, 6 hrs. Prereq., 20 hrs., permission.

390a,b,c,d,e,f. FIELD WORK IN HOME ECONOMICS

(2 to 4) Staff

- a. Home Economics Extension
- b. Home Service Work With Public Utilities
- c. Food Service Management
- d. Retail Merchandising
- e. Radio-Television
- f. Child and Family Development

Through cooperation with business organizations, department stores, radio-television stations, the Home Economics Extension Department of Ohio State University, and the Merrill-Palmer Institute, opportunities are given for on-the-job training and practical experience. The faculty adviser serves as coordinator of the work established with these outside agencies. Prereq., 18 hrs., permission, senior rank.

391. SEMINAR IN HOME ECONOMICS

(1 or 2) Staff

Prereq., approval by chairman of department in which work is performed.

495. THESIS

(1 to 6) Staff

Prereq., approval by chairman of department in which work is performed.

CHILD DEVELOPMENT AND FAMILY LIFE EDUCATION
(Mr. Womble, chairman)

5. INFANT AND CHILD DEVELOPMENT (3) Lockard, Pearce

The physical, emotional, social, and intellectual development of the child through adolescence. The home environment, the care, and the guidance which foster the total development of the child will be stressed. Credit not given for course if student has credit for Ed. 103.

106. FAMILY LIVING (3) Nehls, Pearce, D. Williams, Womble

The case method is used in discussing and analyzing problems confronting young people in establishing a family. Attention is given to the reinforcement the family may secure through interactions with the church, the school, and the community. Prereq., Psych. 1.

172. ADVANCED CHILD DEVELOPMENT (2) Nehls, Pearce

Continuation of H.Ec. 5 with emphasis on the preschool child. Theories and practices used in guiding children's development are gained through participation in the Nursery School. 1 lec., 3 hrs. in Nursery School. Prereq., 5 or Ed. 103.

370. FAMILY LIFE EDUCATION (3) Womble

An examination of attitudes, relationships, and practices within the family group as a means of gaining a deeper understanding of dynamics of family living in our changing society. A development of methods and techniques of presenting family living in the home economics curriculum. Prereq., 18 hrs., Psych. 71 or 173.

375. READINGS IN INFANT AND CHILD DEVELOPMENT (2 or 3) Pearce

An intensive study through library research of a phase of child and infant development. Weekly conferences. Maximum credit in course, 6 hrs. Prereq., 106 and 172, or 9 hrs. psychology and/or sociology, permission.

376. READINGS IN FAMILY LIVING (2 or 3) Womble

An intensive study through library research of problems in family living. Weekly conferences. Maximum credit in course, 6 hrs. Prereq., 106 and 172, or 9 hrs. psychology and/or sociology, permission.

377. TECHNIQUES WITH YOUNG CHILDREN (3) Pearce

Techniques of guidance of nursery school children, with emphasis on emotional and social development of the child and the effect of family attitudes on behavior. 2 lec., 3 hrs. at Nursery School. Prereq., 106, 172.

378. ADMINISTRATION OF GROUP CARE OF YOUNG CHILDREN (3) Pearce

The organization and administration of Nursery School. Prereq., 106, 172. (2nd sem., 1964-65.)

379 a, b. GUIDANCE OF NURSERY SCHOOL CHILDREN (2 to 6) Lockard, Nehls, Pearce

- a. Teaching and Guidance in the Nursery School (4)
- b. Techniques in Child Feeding (2)

Teaching and guidance in the Nursery School with participation in all phases of the Nursery School program. Conference hours arranged each week. Prereq., for a, 377 or Ed. 272; for b, 377 or Ed. 272, H.Ec. 125 or 155.

477. SPECIAL STUDIES IN FAMILY RELATIONSHIPS (2 or 3) Womble

Prereq., 106 and 172, or 12 hrs. psychology, sociology and/or human relations.

478. SPECIAL STUDIES IN INFANT AND CHILD DEVELOPMENT (2 or 3) Pearce
Prereq., 106 and 172, or 12 hrs. psychology, sociology and/or human
relations.

FOODS AND NUTRITION
(Miss Lewis, chairman)

1-2. FOODS, NUTRITION AND MEAL PLANNING

(3-3) Kimball, Lewis, Macauley

Selection, storage, preparation, and serving of food. Nutrition and
all aspects of food management in the home are considered. 1 lec., 4
lab.

12. FOOD PREPARATION AND MEAL MANAGEMENT (3) Lewis

The application of scientific principles in the preparation and
preservation of food; consideration given to nutritional needs and
meal management. Not open to those who have had H.Ec. 1. 2 lec., 4
lab. Prereq., High School H.Ec. in field of Foods and Nutrition and
permission.

125. FAMILY NUTRITION (2) Kimball

The relation of nutrition to growth, development, and maintenance
of health in all age groups.

269. TEACHING OF FOODS AND NUTRITION (3) Kimball, Lewis

Organization of materials and methods of presenting principles of
food preparation and nutrition. For majors in foods and nutrition. 1
lec., 4 lab. Prereq., 2 or 12, and 125.

320. CREATIVE COOKERY AND MEAL MANAGEMENT (3 or 4) Roberts

An advanced course emphasizing the creative, scientific, and artistic
phases of food preparation and meal management. Prereq., 9 hrs. foods
and nutrition and permission. (Summer only.)

322. EXPERIMENTAL COOKERY (3) Lewis

Group and individual experiments on selected problems of food
preparation. 1 lec., 4 lab. Prereq., 2 or 12 and Chem. 113. (1st sem.,
1964-65.)

325. COMPARATIVE STUDIES IN FOODS (3) Lewis, Macauley

An advanced course in food preparation including comparative
cookery, and home food preservation. Factors affecting palatability
and retention of nutrients in food will be considered. 1 lec., 4 lab. Prereq.,
2 or 12, and Zool. 241.

326. ADVANCED NUTRITION (3) Kimball

Principles of nutrition as applied to the feeding of individuals and
families under varying conditions. 1 lec., 4 lab. Prereq., 125, Chem.
113 and Zool. 134. (1st sem., 1965-66.)

328. RECENT DEVELOPMENTS IN FOODS AND NUTRITION (3) Kimball, Roberts

Reports, discussions, and reviews of scientific literature. Some
laboratory projects may be included. Prereq., 2 or 12 and 125 or equiva-
lent. (Summer only.)

329. NUTRITION IN DISEASE (2) Kimball

Application of principles of nutrition to the feeding of individuals
and the use of diet in prevention and treatment of disease. Problems
in planning and preparing therapeutic diets. 1 lec., 3 lab. Prereq., 326.
(2nd sem., 1965-66.)

340. PROBLEMS IN FOODS AND NUTRITION

(2 or 3) Kimball, Lewis, Macauley

A comprehensive study of nutrition, experimental foods, food or nutrition analysis, or food service management. Maximum credit in course, 6 hrs. Prereq., 12 hrs. foods and nutrition and permission.

433. SPECIAL PROBLEMS IN CHEMISTRY OF FOODS AND NUTRITION

(2 or 3) Kimball, Lewis

An intensive study of a phase of food chemistry or nutrition.

Maximum credit in course, 6 hrs. Prereq., 322 or 326.

HOME ECONOMICS EDUCATION AND EXTENSION

(Miss Sellers, chairman)

155. NUTRITION FOR THE ELEMENTARY SCHOOL (2) Kimball

Problems related to home economics at the elementary level. Emphasis on the development of good food habits and nutritional status of children.

250. SEMINAR IN HOME ECONOMICS EDUCATION (2) Sellers

Problems encountered by the student teacher. Classroom management, professional responsibilities, and specific techniques used for teaching will be emphasized. Must be taken concurrently with Ed. 281.

266. METHODS IN HOME ECONOMICS EXTENSION (3) Langford

History and philosophy of Home Economics Extension; principles and procedures of instruction; organization and evaluation of programs. Prereq., 18 hrs. of H.Ec. and Ed. 229.

268. TEACHING OF HOME ECONOMICS (2) Sellers

A study of the Home Economics program at the junior and senior high school level. Special emphasis is given to vocational education, curriculum development, and evaluation procedures. Prereq., junior rank.

350. PROBLEMS IN THE TEACHING OF HOME ECONOMICS (1 to 3) Sellers

Opportunity for individual selection of problems. Maximum credit in course, 6 hrs. Prereq., 18 hrs. and 268.

367. VOCATIONAL HOME ECONOMICS (3) Sellers

History and philosophy of vocational homemaking education. Contemporary trends, methods, sources of materials, and evaluation. Observations arranged. Prereq., 268 or teaching experience in home economics. (Summer only.)

368. DEMONSTRATION TECHNIQUES (2) Lewis, Roberts

Practical experience in the demonstration of foods, equipment, or clothing. Planned for those going into secondary education or consumer service positions. 4 lab. Prereq., 12 hrs.

369. HOME ECONOMICS IN ADULT EDUCATION (3) Sellers

Organization procedures, curriculum materials, and methods of conducting adult education groups in the field of education for family living. Prereq., 18 hrs.

450. SPECIAL PROBLEMS IN TEACHING HOME ECONOMICS (2 or 3) Sellers

Intensive study of some phase of home economics education. Maximum credit in course, 6 hrs. Prereq., teaching experience in home economics.

460. SUPERVISION IN HOME ECONOMICS (3) Sellers
 Leadership functions principles, and practices involved in effective supervision in the field of home economics. Designed for those interested in supervising student teachers or in-service programs at the local, state, or national level. Prereq., teaching experience in home economics.

461. HOME ECONOMICS IN HIGHER EDUCATION (3) Sellers
 Basic philosophy and issues concerning the place of home economics in higher education today. General trends in curriculum offerings, teaching practices, evaluation, administration, and research. Designed for those interested in teaching home economics at the college level. Prereq., a minimum of 24 hours in home economics.

HOUSING AND HOME MANAGEMENT
 (Miss Langford, chairman)

7. THE HOME AND ITS FURNISHINGS (2) Langford
 A practical and aesthetic study in house furnishings, including basic art qualities, styles of houses and interiors; analysis of modern floor plans; selection and arrangement of furniture and accessories.

108. CONSUMER PROBLEMS OF THE FAMILY (2) Macauley
 Personal finance and retailing activities as they affect the role of the consumer. 1 lec., 2 lab.

330. WORKSHOP IN HOME FURNISHINGS (3) Langford
 Laboratory problems in advanced techniques in home furnishings, including upholstering, slip-covering, refinishing furniture, and making draperies. 1 lec., 4 lab. Prereq., 4 or 14 and 7; for non-majors, 3 or 14 and 4 hrs. art and permission.

331. ADVANCED HOME FURNISHINGS (2) Langford
 A study of the qualities and styles of furnishings. Problems on china, glass, silver, furniture, bedding, rugs, etc. Prereq., 330 and Art 191, or 7 and Art 2.

334. HOUSEHOLD EQUIPMENT (3) Macauley
 A critical analysis of the use of home equipment to establish standards for effective use. 1 lec., 4 lab. Prereq., 2 or 12 and 108.

351. HOME MANAGEMENT (2) D. Williams, staff
 Economic use of time, energy, and money in the successful functioning of the home from the viewpoint of the satisfaction of members of the family. Prereq., 2 or 12 and 108, or 6 hrs. sociology.

353. HOME MANAGEMENT LABORATORY (3) D. Williams, staff
 Residence in the home management house for one-half semester provides experience in the use of human and material resources of the family for the optimum development of its members. A charge is made to cover room and board. Prereq., 351 or with 351, permission.

**452. SPECIAL PROBLEMS IN HOUSEHOLD EQUIPMENT
 AND/OR HOME MANAGEMENT** (2 or 3) Macauley, staff
 Maximum credit in course, 6 hrs. Prereq., 334, 353.

FOOD SERVICE MANAGEMENT
 (Mrs. Macauley, chairman)

327. QUANTITY COOKERY (3) Macauley
 Preparation and serving of foods in large quantities. Use of modern equipment. Laboratory practice in the cafeteria and residence halls of Ohio University. Prereq., 2 or 12.

342. MARKETING AND FOOD COST CONTROL (2) Macauley

Studies in production, distribution, and storage of food supplies to serve as a basis for the purchase of such commodities for quantity use. Record keeping involved in food service. 1 lec., 2 lab. Prereq., 327, Acct. 75.

343. EQUIPMENT AND FURNISHINGS (2) Macauley

Kitchen planning and selection of equipment including materials, construction, installation, operation, care, and relative cost; floor plans and specifications. 1 lec., 3 lab. Prereq., 327.

348. ORGANIZATION AND MANAGEMENT (3) Macauley

Principles of organization and administration which apply to food units in school lunch rooms, and public and private institutions. Administration of labor; standards of work; cost control. Prereq., 327, Acct. 75.

TEXTILES AND CLOTHING

(Miss Bane, chairman)

3-4. CLOTHING SELECTION AND CONSTRUCTION (2-2) Bane, Cady, Cowan

A basic course in clothing construction with discussions on color, line, personal attractiveness, fashion, and wardrobe planning. 1 lec., 3 lab.

14. THEORY AND CONSTRUCTION OF CLOTHING (3) Bane

Advanced studies of clothing construction with emphasis on theory and problem solving. 3 lec., lab. arranged as needed. Prereq., high school home economics in field of Clothing and Textiles and permission.

110. TEXTILES (2) Cowan

A basic textile course involving the study of textile fibers and the construction, processing, and care of fabrics. 2 lec., 1 lab.

212. FLAT PATTERN DESIGN (3) Bane

Dress pattern making on advanced fitting problems and the execution of original designs. 1 lec., 3 lab. Prereq., 4 or 14 and 110 or Art 137 and permission.

300. NEW DEVELOPMENTS IN TEXTILES (2) Cowan

New developments in textile fibers with special emphasis on new fibers, their characteristics, uses, and care. Prereq., 9 hrs. clothing and textiles. (Summer only.)

301. TECHNIQUES IN TEACHING CLOTHING CONSTRUCTION (1 to 3) Bane

Special problems in sizing, alteration, fitting and construction as applied to teaching the high school student. Prereq., 316 or equivalent, teaching experience or certification to teach home economics. (Summer only.)

302. TECHNIQUES IN TEACHING CLOTHING SELECTION (1) Bane

Methods of presenting clothing selection on the high school level with emphasis on psychological and economic aspects of clothing. Consumer and market trends to be included. Prereq., 316 or equivalent, teaching experience or certification to teach home economics. (Summer only.)

310. TECHNIQUES IN CLOTHING DESIGN (3) Bane

An advanced course in clothing that offers opportunity for creative expression and for an understanding of patterns through the medium of flat pattern design. 1 lec., 3 lab. Prereq., 4 or 14 and 110.

313. CLOTHING AND TEXTILES FOR THE CONSUMER (2) Cowan

Problems presented to the buyer and the consumer in purchasing textile products such as lingerie, home-furnishing fabrics, ready-to-wear, and accessories. Prereq., 9 hrs. clothing and textiles, Ec. 11 or 101. (1st. sem., 1965-66.)

314. FASHION MERCHANDISING (3) Bane

A study of retail practices related to the field of fashion. Publicity and promotion, stock control, buying and selling of fashion merchandise. 2 lec., 2 lab. Prereq., Ec. 12 or 102, Mkt. 155. (2nd sem., 1965-66.)

315. HISTORY OF COSTUME AND TEXTILES (2) Cowan

Study of costume and textiles through the ages as a basis for the understanding and appreciation of present-day costumes. Prereq., 4 or 14 and 110. (1st sem., 1964-65.)

316. TAILORING (3) Bane

Tailoring of suits or coats. Emphasis placed on professional techniques, advanced fitting problems, and construction of high fashion garments. 6 lab. and demonstration. Prereq., 4 or 14 and 110.

318. ADVANCED TEXTILES (3) Cowan

Physical and chemical examination of fibers and fabrics. Problems in the comparison and evaluation of fabrics. 1 lec., 4 lab. Prereq., 4 or 14 and 110; Chem. 3. (1st sem.)

319. ADVANCED STUDIES IN TEXTILES (3) Cowan

Application of testing techniques applied to specific textile studies. 1 lec., 4 lab. Prereq., 318. (2nd sem., 1964-65.)

HOME ECONOMICS PROGRAMS FOR INTERNATIONAL STUDENTS

The increased number of International students studying Home Economics at the professional level warrants a special program relating Home Economics to family and community development in their different cultures and communities.

The International Home Center and Library established by the School of Home Economics is of special value in the training of students from other countries. Laboratories in the Home Center are set up to demonstrate good practice in home and community development which can be readily adapted to any of the nations.

Classroom and laboratory work taken with regular university classes is supplemented each semester with seminars relating the student's work to her home country. First, the students are given the opportunity to analyze their respective countries for the prevailing social and economic conditions, the health and sanitation problems, the nutritional status of the people, and the cultural and religious patterns and how they affect the home and the family.

Later seminars are concerned with specific areas which need special study, such as Nutrition and Food Habits; Health and Home Care of the Sick; Food Preservation; Sanitation; Infant and Child Care; Clothing; Home Improvement and Home Management; and Housing and Community Development. Seminars include not only discussion but some demonstrations and laboratory practice.

Special courses in developing programs for the school, for adult education classes, and for Home Economics Extension programs are featured.

WORKSHOPS, CONFERENCES, AND SHORT COURSES IN HOME ECONOMICS FOR INTERNATIONAL STUDENTS AND VISITORS

Summer programs in the International Home Center vary according to the needs of the International groups visiting the campus. These groups may be students needing special training in some area of Home Economics, participants in the Peace Corps program, or faculty who are concerned with the training of International students.

The following workshops, conferences, or short courses may be established as the need arises:

- (a) Nutrition and Health Problems in Developing Nations of The World (Specific areas may be emphasized from time to time)
- (b) Sanitation and Health Problems
- (c) Establishing Home Economics Extension Programs in Developing Nations
- (d) Curriculum and Teaching Practices for Secondary Schools
- (e) Curriculum and Teaching Practices for Colleges and Universities
- (f) Home and Community Improvement
- (g) Infant and Child Care
- (h) Housing and Home Management
- (i) Adult and Extension Programs for Developing Nations of The World
- (j) Curriculum Studies and Evaluation of Home Economics Programs for International Students

HUMAN RELATIONS

Associate Professors Black (chairman), Ostlund
Assistant Professors Butler, Dutton
Instructors E. Anderson, Sheeder

Courses are designed to contribute to the general education of students in any field. Majors in any area who plan to prepare for personnel work in business and industry, social work and administration, government agencies, or education are invited to confer with members of the staff about selection of courses.

291-292. PRACTICUM IN STUDENT PERSONNEL

(3-3) E. Anderson

A survey of the problems of orientation of freshmen to college. Supervised experience, including observation, discussion, and practice in personnel and guidance. 1 lec., minimum of 4 lab. Prereq., permission. (Yearly.)

303-304. HUMAN RELATIONS

(3-3) Black, Ostlund, Sheeder

A course taught by the case method, designed for students interested in studying the habits and skills of analysis, judgment, and action important to people in all walks of life. Prereq., junior, senior, or graduate rank. (303, each semester; 304, 2nd sem., yearly.)

325. FIELD WORK OR RESEARCH

(1 to 3) Staff

An opportunity for individual work in a specialized area of human relations; field work in human relations; or research under the direction of the staff. Maximum credit in course, 5 hrs. Prereq., 303, permission. (Each sem.)

384. GROUP DYNAMICS

(3) Ostlund

Principles and techniques used in research concerning groups and their members. The content includes variables such as structure, process, products, and changes, as well as a background of history, theories, techniques, and applications of group dynamics. Prereq., Psych. 1 or 101 or Soc. 1 or 101. (2nd sem., yearly.)

486, 487. PRACTICUM IN STUDENT PERSONNEL ADMINISTRATION

(3, 3) Butler, Dutton

Practice in working under supervision in: residence halls, fraternities, sororities, environmental health, off-campus housing, student government, student organizations, offices of the personnel deans, foreign student advising and programming, student discipline, extra-curricular activities, student publications, campus religious affairs. Prereq., second and third year graduate students in human relations and in student personnel services; permission. (Yearly.)

491. SEMINAR IN HUMAN RELATIONS

(3) Ostlund

The course will offer lectures and a practicum in experimentation and research writing in the social sciences. Students will present projects for class analysis. Prereq., 303, permission. (1st sem., yearly.)

493, 494. SEMINAR IN STUDENT PERSONNEL ADMINISTRATION (3, 3) Black

Designed for those specializing in student personnel work. Emphasis on philosophy and current trends in student personnel work and administrative procedures for effective coordination of services within a student personnel program. Prereq., 18 hrs. social sciences, permission. (Yearly.)

495. THESIS

(1 to 6) Staff

Prereq., permission.

INDUSTRIAL ARTS

Associate Professors Hawlk,

Paige (chairman), Perry

Assistant Professors Adams, Armbruster, Baird,

Calvin, Covert, Squibb, Shull

Instructor Jenkins

The requirements for an industrial arts major in the program leading to a Bachelor of Science in Education degree are outlined in the College of Education section of the catalog. The program outline for the Bachelor of Science in Industrial Technology degree is described in the College of Engineering and Technology section.

1, 2. GENERAL WOOD

(3, 3) Baird

Design of objects and methods of construction using wood. 1 lec., 4 lab. 1, introduction; 2, machine processes. Prereq., E. G. 15.

3. THE WOOD INDUSTRY

(3) Paige

The technology of wood and related fabrication processes, tools and machinery. For industrial technology students. 1 lec., 4 lab.

5. DRIVER EDUCATION

(1) Covert

A course for novice drivers. Credit and points not counted toward degree. 1 lec., 2 lab. Fee, \$15.

6. WOOD TURNING

(2) Baird

Design and construction involving wood lathe processes. 4 lab.

9. CRAFTS (2) Armbruster, Perry
Fundamentals of working with leather, art metal, enameling, and plastics. Open to any student in the University. 4 lab.

12. SHOP ORIENTATION (1) Adams, Calvin
Operation of metalworking machinery. For electrical engineering majors only. 2 lab.

13. GENERAL COLD METALS (3) Adams, Calvin
Sheet metal, bench metal, and machine shop practice. 1 lec., 4 lab.

14. GENERAL HOT METALS (3) Armbruster, Squibb
Forging, foundry, and welding practice. 1 lec., 4 lab.

17. METALWORKING FOR ENGINEERS (3) Calvin, Squibb
Machine shop, foundry, and welding techniques and processes. For mechanical engineering majors. 1 lec., 4 lab.

19. AUTOMOTIVE THEORY AND REPAIR (3) Shull
Emphasis on servicing and overhauling the engine and chassis. 1 lec., 4 lab.

104. FURNITURE UPHOLSTERY (2) Paige
Construction and repair of upholstered furniture. 4 lab.

105. MATERIALS OF INDUSTRY (3) Paige
Sources, manufacture, and application of common materials and finishes.

106. ADVANCED WORK IN CRAFTS (2) Perry
Practice in original design and skill development in crafts. 4 lab. Prereq., 9 or permission.

107. SHEET AND ART METAL (2) Adams
Art metal methods and advanced work in sheet metal and metal spinning. 4 lab. Prereq., 13.

109. ADVANCED WOOD (2 or 3 as scheduled) Baird
Individually designed project construction. 4 or 6 lab. Prereq., 2.

115. INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL (2) Hawlk
Planning and construction of projects associated with classroom work. 4 lab.

116. INDUSTRIAL ARTS DESIGN (2) Baird
Principles of design and their application to industrial arts projects. 4 lab. (2nd. sem., yearly.)

117. SHOP AND MACHINE MAINTENANCE (2 to 4) Shull
Practice in maintenance of tools and machines. 4 to 8 lab. Prereq., permission.

121. PATTERNMAKING (2) Baird
Practice in construction of wood patterns for metal castings. 4 lab. Prereq., 1 or 3, 14 or permission. (2nd sem.)

122. ADVANCED FOUNDRY (2) Squibb
Practice in various molding and core making techniques. 4 lab. Prereq., 121. (1st sem.)

124. MACHINE SHOP (2) Calvin
Operation of engine lathe, milling machine, shaper, and grinders. 4 lab. Prereq., 13 or permission.

125. SHEET METAL PRESSWORK (2) Adams
A course in the fundamentals of press operation to include forming, punching and the construction, setup and operation of elementary die sets. 4 lab. Prereq., 13.

128. ADVANCED METAL WORK (3) Adams
Machine shop work involving laboratory applications of mass production processes, gaging, inspection and quality control. 6 lab. Prereq., 13.

129. WELDING (2) Armbruster
Practice in oxy-acetylene, electric arc, and spot welding. 4 lab. Prereq., 14.

131. CERAMICS (2 or 3) Hawk
Practice in common forming, firing, and glazing techniques employed in the ceramic industry. 1 lec., 3 lab.

132. INDUSTRIAL ELECTRICITY (3) Perry
Emphasis upon power generation, distribution, rectification, motors, and control circuits. 2 lec., 2 lab., Prereq., Phys. 6.

133. ELECTRICITY (3) Perry
Study of sources, control and uses of electrical energy. Emphasis on methods of presenting this material to high school classes. 1 lec., 4 lab., Prereq., Phys. 6.

134. POWER AND TRANSPORTATION (3) Shull
Study of air, steam, water, electricity, and gas combustion as sources of power. 1 lec., 4 lab.

141, 142. GRAPHIC ARTS (3, 3) Jenkins
For students preparing to teach. 141: letterpress, screen process, bookbinding, papermaking, history and evolution of book and printing industries; 142: offset lithography, photographic screen process printing, industrial photography, duplicating methods, course construction and problems of teaching the graphic arts. 1 lec., 4 lab.

144. GRAPHIC ARTS PROCESSES (3) Jenkins
A survey course covering the major printing processes and their allied industries for technology students. 1 lec., 4 lab.

147. ADVANCED GRAPHIC ARTS (2 to 4) Jenkins
Problems in letterpress and offset printing. Emphasis on layout and design. 4 to 8 lab. Prereq., 141, 142; or 144 and permission.

199. DRIVER AND TRAFFIC SAFETY EDUCATION (3) Covert
Critical analysis of traffic accidents, attitude factors, essential knowledge of automobile operations, and traffic laws and regulations. Includes laboratory experiences for developing driving skills. 2 lec., 2 lab. Prereq., Psych. 71.

200. THE TEACHING OF DRIVER AND TRAFFIC SAFETY EDUCATION (3) Covert
Organization, administration, specialized information and techniques essential to the teaching of driver education. Includes laboratory teaching experiences for giving driving instruction. 2 lec., 2 lab. Prereq., 199.

203. BASIC ELECTRONICS (3) Armbruster
Theory and practice in fundamental electronic circuits. 1 lec., 4 lab. Prereq., 132 or 133.

240. DEVELOPMENTAL PRINCIPLES AND PRACTICES FOR INDUSTRIAL PRODUCTS (3) Hawk
Orientation to the field of product development. A study of problems, fundamental goals and contributions to society. 1 lec., 4 lab. Prereq., E. G. 2 or 15 or permission.

260. TEACHING OF INDUSTRIAL ARTS (3) Baird
Methods of presenting technical and related material in industrial arts classes. Prereq., 12 hours. (1st sem., yearly.)

299. PROBLEMS IN SAFETY (2) Covert
Special emphasis on applications in the areas of manufacturing and transportation. (1st sem., yearly.)

302. DEVELOPMENT OF TEACHING AIDS FOR INDUSTRIAL EDUCATION (2) Perry
Construction of aids based upon analysis of teaching situations. 4 lab. Prereq., teaching experience.

309. ADMINISTRATION OF INDUSTRIAL ARTS (3) Paige
Types of organization, laboratory planning, equipment selection, and accounting systems are studied. Prereq., 12 hours. (2nd sem., yearly.)

316. PROJECT DEVELOPMENT (3) Baird
Development of original projects with related instructional materials applicable to selected areas of industrial arts.

328. SPECIAL PROBLEMS IN INDUSTRIAL ARTS (1 to 3) Staff
Research on selected problems.

399. WORKSHOP IN DRIVER EDUCATION (1 to 3) Covert
A course for teachers. Activity guided by problems in present programs. Prereq., certification in driver education. (Summer only.)

403. CURRENT TRENDS AND DEVELOPMENTS IN INDUSTRIAL EDUCATION (2) Staff
New developments and undertakings in the field of industrial education as interpreted by visiting personnel.

426. HISTORY AND PHILOSOPHY OF INDUSTRIAL EDUCATION (3) Hawk

450 a, b, c, d. ADVANCED WORK IN WOOD, METAL, GRAPHIC ARTS, OR POWER (2) Staff
The course may be repeated in different areas for a maximum credit of 6 hours. 4 lab.

457. PROGRAM PLANNING IN INDUSTRIAL ARTS (3) Baird
Planning industrial arts curricula for specific schools.

471. ADMINISTRATION AND SUPERVISION OF INDUSTRIAL EDUCATION (2 or 3) Staff
Problems and practices of supervising vocational and nonvocational industrial education in the public schools.

481. RESEARCH IN INDUSTRIAL ARTS (1 to 3) Perry
A written report of the investigation is to be presented to the departmental graduate committee. May be repeated for maximum credit of 6 hours. Prereq., Ed. 488.

491. SEMINAR IN INDUSTRIAL ARTS EDUCATION (1 to 3) Staff
May be repeated for maximum credit of 6 hours.

495. THESIS (1 to 6) Staff
Prereq., permission.

JOURNALISM Professors Baird, Hortin (director), Turnbull
Associate Professors Gentry, Hart, Sargent, Wagner
Part-time Instructors McDargh, Reamer, Ward

1. ORIENTATION IN JOURNALISM (2) Gentry, Sargent
Analysis of the forms and purposes of journalistic communications —reporting, editing, management, advertising, radio and television news, public relations, free lance and feature writing, photo-journalism; opportunities for careers in the various sequences; guidance and counseling; survey of facilities.

105. HISTORY OF AMERICAN JOURNALISM (3) Baird
A study of the development of newspaper, magazine, and radio journalism from the colonial period to the present, including political, economic, and mechanical aspects. Prereq., Eng. 4.

107. NEWSPAPER REPORTING (3) Baird, Gentry
Instruction in methods of gathering material and writing news reports, interviews, reports of speeches, follow-ups and re-writes, human interest stories, and specialized news. Practice work covering assignments and preparing copy. Prereq., Eng. 4, and Sec. St. 15 or the ability to operate a typewriter efficiently.

111. REPORTING PRACTICE (1 to 4) Reamer
Students are assigned to general reporting on *The Athens Messenger*, which includes the covering of definite news beats as well as special assignments. Prereq., 107 and permission.

140. THE COMMUNITY NEWSPAPER (2) Staff
The course stresses editorial and business phases of weeklies and small dailies. Problems include editing, editorial writing, and rural correspondence; school, church, and business life; circulation, advertising, job printing, and mechanical equipment. Prereq., Eng. 4.

146. TYPOGRAPHY, MECHANICS, AND MAKEUP (3) Baird, Turnbull
Make-up in type of newspaper pages, following introduction to hand composition. Study of principles of good make-up of ads and news, including correct choice of type. Mechanics of printing reproduction studied.

217. NEWSPAPER AND MAGAZINE EDITING (3) Hart
Principles and practices of copyreading, headline writing, illustration, and make-up for newspapers, tabloids, ad magazines. Other phases: picture editing, desk problems, wire and syndicate material. Prereq., 107.

221. EDITING PRACTICE (1 or 2) Ward
Students are assigned to copyreading on *The Athens Messenger*, handling local, correspondence, and wire copy, and working out make-up problems. Prereq., 217 and permission.

230. REVIEWING AND CRITICISM (2) Gentry
A study and analysis of books, art, drama, music, photography, radio, television, and other public presentations. Students write reviews and criticisms after studying outstanding examples in recognized publications. Prereq., 107, Eng. 4.

247. NEWSPAPER ADVERTISING AND LAYOUT (3) McDargh

A study of the operation of the advertising department from the viewpoint of the advertising manager. Prereq., Advt. 155.

251. CONTEMPORARY THOUGHT AND DEVELOPMENTS (3) Hart

Contributions in all phases of modern society are discussed by university faculty members and other authorities. Students are required to do reference reading and to write news reports of the discussions. Prereq., 107, junior or senior rank.

277. NEWSPAPER ADVERTISING PRACTICE (1 to 4) McDargh

Laboratory work in preparing copy for local display advertisers of *The Athens Messenger*. Other practice problems in the fields of classified, national, and promotion advertising. Prereq., 247 and permission.

280. RADIO-TELEVISION NEWS WRITING AND EDITING (2) Wagner

The study and practice of writing and editing news for broadcasting. Students will prepare radio news from local sources and press services. Prereq., 107, Radio-Television 79.

285. RADIO-TELEVISION NEWS PRACTICE (1 or 2) Wagner

A laboratory course in the production of regular newscasts covering both preparation of copy and the actual broadcasts of the script over University radio and television stations. Maximum credit in course, 4 hrs. Prereq., 280 and permission.

303. TELEVISION NEWS PRODUCTION (2) Wagner

The preparation and production of television news. Experiments in visual presentation of news and discussion of the organization and policies of the television newsroom. Prereq., 280, Photog. 133, and permission.

304. PROBLEMS OF BROADCAST NEWS (2) Wagner

Discussion of problems—technical, editorial and ethical—faced by broadcast media in covering today's news. Research and problem solving in the use of advanced news processes, including analysis, commentaries, editorials, forums and documentaries. Prereq., 303 and permission.

306. NEWSPAPER AND COMMUNICATIONS LAW (2) Hart, Hortin

Principles and case studies of the law of the press with emphasis on constitutional guarantees, libel, contempt, privacy, copyright, privilege, and administrative controls. Some consideration of regulations pertaining to radio and television. Prereq., 217, senior rank.

307. REPORTING OF PUBLIC AFFAIRS (2) Gentry

Includes a study of governmental, civic, and business organizations: courts, legal procedure, city and county government, state and national organizations, banks, political parties, and community activities. Prereq., 111, or permission, and senior rank in journalism.

309. RADIO-TELEVISION ADVERTISING AND MANAGEMENT (3) Turnbull

A study of the business principles and practices in the broadcasting industry, dealing with problems in radio and television station operation, with major emphasis on time sales. Prereq., Advt. 155 or permission.

322. FEATURE AND MAGAZINE WRITING (3) Baird

A study of newspaper, magazine, and pictorial features, followed by practice in writing and marketing of various types. The course includes finding subjects, securing photographs, writing articles, and surveying markets. Prereq., 107, or 12 hrs. of English, or permission.

323. ADVANCED FEATURE AND MAGAZINE WRITING (2) Gentry

Students are permitted wide range in selecting feature subjects. High grade writing is stressed with definite idea of publication. Prereq., 322.

325. THE EDITORIAL PAGE (2) Gentry

A study of the editorial page as to purpose, style, and effect. Training is given in writing interpretative news articles, columns, and all types of editorials. Prereq., 111, or 12 hrs. of English, and senior rank, or permission.

327. PUBLIC RELATIONS TECHNIQUES (3) Hortin

Study and practice of fundamental public relations functions. Emphasis is placed on polling, publicity writing, and preparation of literature of business organizations—house organs, reports, pamphlets, advertisements, leaflets, manuals, and letters. Prereq., 107, 146, and junior rank, or permission.

328. PUBLIC RELATIONS (3) Hortin, staff

A study of advanced public relations problems, policies, and practices of various institutions and organizations in modern society. Attention is focused on public relations program development. Prereq., 327 or permission.

329. BUSINESS AND MAGAZINE JOURNALISM (2) Baird

Study of industrial, business, and institutional publications. Analysis of contents, purposes, and readership of such publications. Practice in copy preparation and make-up. Staff, costs, printing, and circulation are considered. Prereq., 111, 146.

343. NEWSPAPER MANAGEMENT (2) Turnbull

A study of the problems and economics of publishing. Consideration is given to policy making as it affects all departments of the newspaper plant. Prereq., junior or senior rank.

348. ADVERTISING PRODUCTION (2) Turnbull

Study of mechanical, graphic, and creative methods of advertising production; comparative analysis of printing processes; relation of color, art work, type, media, and quality of paper to advertising purpose; study of cost and controls. Prereq., 247 or Advt. 332 or permission.

370. INTERNSHIP (3) Staff

A conference course open only to students who have completed their internship work with an approved organization. Students will submit a comprehensive report involving analysis and problems encountered during the summer training. Prereq., only by permission; junior rank or above, and completion of summer internship.

375. SPECIALIZED JOURNALISM (3) Wagner

A course designed for students desiring training in special fields—science, sports, society, politics, military, home economics, agriculture, religious activities, teaching journalism, music, and other approved areas. Prereq., junior rank or above, permission.

376. GRAPHIC PRODUCTION PROCESSES (3) Turnbull, staff

Advanced study of all processes for reproducing the printed word and pictures, including photo-engraving, lithography, letterpress, rotogravure, mimeographing, duplicating. Emphasis is placed on developing a thorough understanding of latest developments in each field as they affect editing, advertising, public relations, and television news. Includes theory and laboratory work in preparation of written and photographic copy for each process. Prereq., 146, senior rank, permission.

378. SUPERVISING SCHOOL AND COLLEGE PUBLICATIONS (3) Baird, staff

A conference course for advisers of high school and college newspapers, magazines, and yearbooks. Problems relating to staff selection, content of publications, copy, layout, photography, printing, advertising, and business phases. In summer sessions the Publications Workshop will be analyzed on a case study basis. Prereq., 12 hrs. or permission.

381. RESEARCH IN JOURNALISM (1 to 8) Sargent, staff

Prereq., 18 hrs. in journalism and advertising, permission.

403. SEMINAR IN THEORY OF MASS COMMUNICATIONS

(3) Gentry, Hart, Sargent

Examination and discussion of problems of mass communications, their role as social institutions, their control and support, and their effects. Study of thesis writing and selection of a thesis problem. Prereq., permission.

405. SEMINAR IN RESEARCH METHODS

(3) Sargent

A study of the methods of empirical research in mass communications: research techniques, readership studies, readability formulas, content analyses, questionnaire techniques and interviews. Prereq., 403 or permission.

406. INTERNATIONAL COMMUNICATIONS

(2) Hart

Advanced study of communications problems and practices of the major countries of the world and the flow of news among them. A comparative analysis of the operating procedures in relation to: newspapers, news agencies, magazines, books, radio, television, public relations, advertising, and management. The relation of communications media to international policies and programs. Prereq., permission.

409. LITERATURE OF JOURNALISM

(2) Hart

Directed reading and discussion of outstanding professional literature in the field of journalism. Emphasis will be on histories, biographies, and great writings of well-known journalists. Prereq., 403.

425. GOVERNMENT AND MASS COMMUNICATIONS

(3) Staff

Communications and political order, theory and structure of democratic and totalitarian communications systems, relationship between government and mass communications in the modern world. Prereq., permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

LIBRARY SCIENCE

Assistant Professors Wright
(director of libraries) and Linnenbruegge

Courses in Library Science under the direction of the Director of Libraries, in cooperation with the College of Education, provide training for students wishing to qualify as teacher-librarians under the Ohio Department of Education. Library Science 191 is also useful as a general elective for students interested in training for graduate or research work in any field of study. Students in literature or fine arts may find Library Science 194 helpful. Ed. 102 also counts for a minor in library science.

191. THE USE OF LIBRARY RESOURCES (3) Wright
Training in the effective use of modern library resources. Required for a minor in library science. (1st sem., yearly.)

192. CLASSIFICATION AND CATALOGING OF BOOKS (3) Linnenbruegge
Training in classifying and cataloging books, with practice in the preparation of a card catalog for a high school library. Required for a minor in library science. (2nd sem., yearly.)

194. HISTORY OF BOOKS AND PRINTING (3) Wright
A survey of the development of books and printing from early times to the present. (2nd sem., 1964-65.)

202. BOOKS FOR HIGH SCHOOL READERS (3) Linnenbruegge
An introduction to books and book services for the high school age group. (1st sem., 1965-66.)

291. THE SCHOOL LIBRARY (3) Linnenbruegge
Methods and materials used in organizing and developing school library service. Required for a minor in library science. (1st sem., yearly.)

392. ADVANCED LIBRARY STUDIES (1 to 3) Staff
Individual projects. Prereq., 191, 291.

393. PRACTICAL PROBLEMS IN SCHOOL LIBRARY SERVICE (3) Linnenbruegge
Prereq., 291. (2nd sem., 1965-66.)

MANAGEMENT

Professor Hellebrandt (chairman)
Associate Professors Greenwood, Ralph D. Smith
Assistant Professors Bolon, Weaver
Acting Instructor McQuilkin

3. INTRODUCTION TO BUSINESS (3) Staff
A survey of the operations of business in our capitalistic system. An understanding of the technical language of business. Not open to upperclassmen working toward the Bachelor of Business Administration degree.

211. INDUSTRIAL MANAGEMENT (3) Staff
An examination of the basic fundamentals of management underlying the solution of problems of organization and operation in all business enterprise. Prereq., Ec. 12 or 102, sophomore rank, or permission.

301-302. PRODUCTION MANAGEMENT (3-3) Hellebrandt, Smith
301. An introduction to the more important production procedures and techniques. Deals with the operating production problems of the factory manager. Case and semi-laboratory method. Prereq., 211 or permission.
302. Problems of the executive factory manager. Development of ability to analyze and solve production problems and formulate production policies. Introduction to quantitative techniques in production management. Prereq., 301 or permission.

308. PRODUCTION PLANNING AND CONTROL (3) Smith
Developing a scientific approach to the solution of planning and control problems in any type of production or management activity. Prereq., 211 or permission.

310. MANAGEMENT RESPONSIBILITIES IN SOCIETY (3) Greenwood
Prereq., 211 or permission.

312. ADMINISTRATION OF PERSONNEL (3) Bolon
Prereq., 211 or permission.

314. PERSONNEL MANAGEMENT PROBLEMS (3) Bolon
A detailed study of personnel problems and their relation to various personnel management principles dealing with such subjects as induction and training, transfers and promotions, and morale. Taught by case method. Prereq., 312 or permission.

321. MOTION AND TIME STUDY (3) Smith
An introduction to methods, time study, and wage payment. Includes considerable practical as well as theoretical work in the areas of operation analysis, motion study, micromotion study, predetermined time systems, stop watch time study, standard data, and work sampling. Prereq., 301 or 211 and/or permission.

325. INDUSTRIAL RELATIONS (3) Hellebrandt
Objectives, establishment, and procedures of collective bargaining; administration of collective bargaining agreements; labor-management cooperation; the methods of conciliation, mediation, and arbitration of disputes. Taught by case method. Prereq., 211 or permission.

330. OFFICE MANAGEMENT (3) Weaver
(Same as Sec. St. 330.) Analysis of information activities and flows in the business enterprise as a system. Includes case problems. Prereq., 211, junior or senior rank.

332. WAGE AND SALARY ADMINISTRATION (3) Bolon
The factors determining industrial wage and salary policies, methods of employee payments, wage relationships, wage rate setting, incentive wage plans. The techniques and methods of implementing wage and salary policies. Prereq., 302 or 312.

340. ORGANIZATION (3) Weaver
Study of the development of organizational theory and management thought as applied to administration, staff, and operating management. Development of individual, operating management concepts which students can use as a basis for analysis of business problems and evaluation of organizational performance. Prereq., 211 or permission.

345. ADVANCED PRODUCTION PROBLEMS (3) Hellebrandt
Case studies of production problems in a number of different industries; designed to apply to all phases of the student's training and experience. Prereq., 302, senior rank and/or permission.

350. ELECTRONIC DATA PROCESSING METHODS (3) Weaver
Principles of electronic data processing and of electronic computers; designed to provide background information necessary for understanding the effect of computers on business management and organization. Includes the use of the incident process and case studies. Prereq., 211 or 330 (same as Sec. St. 330), permission.

360. OPERATIONS RESEARCH (3) Staff
Study of objectives of operations research and of techniques used; designed to provide understanding of its purposes and applications in business. Includes consideration of linear programming, dynamic programming, and other operations research techniques. Prereq., 340 and 350 or permission.

380. MANAGEMENT POLICIES AND PRACTICES (3) Greenwood, Hellebrandt
 The integration of the subject matter in the functional areas of the core curriculum through the study of the problems of top management organization, administration techniques, and policy formulation. Prereq., senior standing in the College of Business Administration or permission.

381. RESEARCH IN MANAGEMENT (1 to 8) Staff
 Prereq., 16 hrs. economics and/or business administration, including 301 or 312, and permission.

391. SEMINAR IN MANAGEMENT (2 to 4) Staff
 Maximum credit in course, 10 hrs. Prereq., 15 hrs. management and/or economics and permission.

410. BUSINESS POLICY (3) Hellebrandt
 An integration of the work in the functional areas. Complex case studies calling for an analysis of the various activities within a firm and their place in the framework of the industry in which it competes and the area in which it operates.

A top management view of decision making affecting the future operations of a business and the opportunities, risks, and responsibilities accompanying the formulation of company policy. Prereq., 12 hrs. graduate credit in business administration, including economics.

481. RESEARCH, ANALYSIS, AND REPORT WRITING (3) Krauskopf
 Prereq., permission.

491. SEMINAR IN MANAGEMENT (2 to 4) Staff
 Maximum credit in course, 8 hrs. Prereq., permission.

495. THESIS (1 to 6) Staff
 Prereq., permission.

Additional courses:
 Ec. 335—Labor Economics
 Ec. 338—Labor Legislation
 Psych. 261—Industrial Psychology
 Psych. 361—Seminar in Psychological Problems in Industry
 Stat. 271—Analysis of Statistical Data
 Stat. 303—Statistical Quality Control
 Stat. 341—Business Cycles
 Stat. 345—Forecasting
 Stat. 350—Recent Trends in Statistical Techniques

MARKETING

Professor Krauskopf (chairman)
 Associate Professors Paynter, Raymond
 Assistant Professor Richmond

155. MARKETING PRINCIPLES (3) Krauskopf, Paynter, Raymond, Richmond
 The principles, methods, and policies of marketing consumers' goods and industrial goods. Prereq., Ec. 12 or 102.

258. MARKETING PROBLEMS (3) Raymond
 A consideration by the case method of the problems facing the producer and the middleman. Prereq., 155.

276. SELLING AND SALES MANAGEMENT (3) Raymond
Principles and practices in planning, organizing, and controlling a sales force including selecting, training, compensating, supervising, and stimulating salesmen. Some emphasis on the principles of personal selling. Prereq., 155.

301. RETAIL SELLING POLICIES (3) Paynter
The organization and operation of retail institutions. Prereq., 155.

302. RETAIL BUYING AND STOCK CONTROL (3) Paynter
A study of buying, receiving, and stock control practices in retail stores. Prereq., 301.

311. RECENT TRENDS IN MARKETING AND SELLING (3) Krauskopf, Paynter
Prereq., 155.

325. INDUSTRIAL MARKETING (3) Paynter, Raymond
A consideration of the problems involved in the marketing of industrial goods. Prereq., 155.

326. INDUSTRIAL PURCHASING (3) Paynter
A study of the procedures and problems involved in the procurement of industrial goods. Prereq., 155.

341. FOREIGN TRADE (3) Paynter
A study of the theories of foreign trade and of the problems of concerns engaged in importing and exporting. Prereq., 155.

346. FOREIGN MARKETS (2) Paynter
A study of foreign markets from the point of view of the American exporter. Prereq., 155.

352. PROBLEMS IN SALES MANAGEMENT (2) Raymond
Problems of sales administration and selling policies by the case method. Prereq., 258 or 276.

381. RESEARCH IN MARKETING (1 to 8) Staff
Prereq., 18 hrs. business administration, including 5 hrs. marketing, permission.

391. SEMINAR IN MARKETING (2 to 4) Staff
Maximum credit in course, 10 hrs. Prereq., 18 hrs. business administration, including 5 hrs. marketing, permission.

458. MARKETING MANAGEMENT (3) Raymond
Cases and problems involving management decisions concerning trade channels, pricing, product development, sales organization, and sales promotion. Prereq., 155, Mgt. 211.

491. SEMINAR IN MARKETING (2 to 4) Staff
Maximum credit in course, 8 hrs. Prereq., permission.

495. THESIS (1 to 6) Staff
Prereq., permission.

MATHEMATICS

Professors Denbow, Goedcke, Marquis
 Associate Professors Butner, Fishback (chairman),
 Jasper, Spring
 Assistant Professor Mack
 Instructors Gillam, Golos, Goodrich, LeBoutillier,
 Ligh, McClelland, McPherson, Magnotta,
 Schiller, Schwartz, Shankar, Wyzalek

The major requirement for the A.B. or B.S. degree is 14 hours in courses numbered above 102, including at least two courses numbered above 300. Courses numbered 15, 16, 101, 102, 104, 207, 209, 268, and 301 are recommended as minimum preparation for secondary teachers.

1. ELEMENTARY ALGEBRA

(3) Staff

A course for students with no high school algebra. Credit and points not counted toward degree. (Summer only.)

2. EUCLIDEAN GEOMETRY

(3) Staff

A course for students with no high school geometry. Prereq., 1 or 1 yr. high school algebra. Credit and points not counted toward degree. (Summer only.)

3. COLLEGE ALGEBRA

(3) Staff

Exponents and radicals; quadratic equations; proportion and variations; binomial theorem; progressions; determinants; applications from the physical and social sciences and from business. Prereq., 2, or 1 yr. each in algebra and geometry in high school. (Each sem.)

4. BASIC MATHEMATICS FOR BUSINESS ANALYSIS

(3) Staff

Prereq., 3. Not open to students who have passed 16. (Each sem.)

8. FOUNDATIONS OF ELEMENTARY ARITHMETIC

(3) Staff

Positional notation and other number bases, justification of the arithmetic algorithms, and structure of the number system. Open to elementary education majors only. Prereq., high school algebra, plane geometry. (Each sem.)

9. FUNDAMENTALS OF MATHEMATICS

(3) Staff

An analysis of basic concepts of algebra. Not open to students who have had Math 3, 14, or 15. Primarily for pre-medical and pre-dental students. Prereq., 2, or 1 yr. each in high school algebra and geometry. (1st sem., yearly.)

10. FUNDAMENTALS OF MATHEMATICS

(3) Staff

An introduction to the basic concepts of analytic geometry and calculus, and topics in modern mathematics. Not open to students who have had 16. Prereq., 3, or 9. (2nd sem., yearly.)

14. TRIGONOMETRY

(3) Staff

Prereq., 9, or with 9, or 3 with minimum grade of "C." (Each sem.)

15. FRESHMAN MATHEMATICS

(5) Staff

Algebra and plane trigonometry. Not open to students who have had 3, 9, or 14. Prereq., 2, or 1 yr. each in high school algebra and geometry, or equivalent. (Each sem.)

16. ANALYTIC GEOMETRY AND CALCULUS

(5) Staff

Functions and limits, differentiations and integration of algebraic forms, vectors, topics in analytic geometry (including conics), and differentiation of trigonometric functions. Prereq., 14, or 15, or qualification by exam. (Each sem.)

101. ANALYTIC GEOMETRY AND CALCULUS (4) Staff
Differentiation of logarithmic and transcendental functions, evaluation of integrals, limits and continuity, applications of derivatives and integrals, improper integrals, and polar coordinates. Prereq., 16. (Each sem.)

102. ANALYTIC GEOMETRY AND CALCULUS (4) Staff
Solid analytic geometry, partial differentiation, multiple integrals, infinite series, and expansion of functions. Prereq., 101. (Each sem.)

104. ADVANCED MATHEMATICS OF BUSINESS (3) Staff
Business applications of the calculus, linear systems and programming, decision models, mathematics of finance. Prereq., 16. (2nd sem., yearly.)

207. INTRODUCTION TO MATHEMATICAL STATISTICS (3) Butner, Goedcke
A beginning course in statistics; presentation and description of data, introduction to probability and sampling theory, with applications. Prereq., 16. (2nd sem., yearly.)

209. COLLEGE GEOMETRY (3) Staff
Brief review of elementary plane Euclidean geometry. Selected topics in axiomatics, modern Euclidean and non-Euclidean geometries. Prereq., 16. (Each sem.)

215. ADVANCED APPLIED MATHEMATICS (3) Staff
Ordinary differential equations and related topics. Prereq., 102. (Each sem.)

216. ELEMENTARY COMPLEX ANALYSIS (2) Staff
Selected topics from the theory of functions of a complex variable of importance in the engineering and physical sciences. Prereq., 215. (Each sem.)

268. TEACHING OF MATHEMATICS IN HIGH SCHOOL (3) Fishback, Jasper
An analysis of the basic ideas of algebra and geometry. Methods of presenting topics in these subjects to junior and senior high school students. Prereq., 16, Psych. 71. (Each sem.)

301. ARITHMETICAL AND ALGEBRAIC SYSTEMS (3) Butner, Golos
Properties and structures of number systems; selected topics from theory of equations and linear algebra. Prereq., 102, or with 102. (Each sem.)

308. PROJECTIVE GEOMETRY (3) Fishback, Marquis
Prereq., 102. (2nd sem., 1964-65.)

311. NUMERICAL ANALYSIS (3) Goedcke, Spring
An investigation of numerical methods for approximate solution of applied problems. Topics will include interpolation theory, curve fitting, approximate integration, and the numerical solution of differential equations. Prereq., 102. (1st sem., 1964-65.)

313. VECTOR ANALYSIS (2) Goedcke, Wyzalek
Prereq., 215. (1st sem., yearly.)

314. FOURIER ANALYSIS AND PARTIAL DIFFERENTIAL EQUATIONS (2) Marquis, Shankar
Prereq., 215. (Each sem.)

318. PRINCIPLES OF DIGITAL COMPUTER PROGRAMMING (3) Marquis, Spring
Prereq., 311, or 215. (2nd sem., yearly.)

321. MATRIX THEORY (3) Shankar, Spring
 Matrix algebra and determinants, linear equations, vector spaces and linear transformations, characteristic equations, and quadratic forms. Prereq., 102. (1st sem., yearly.)

322. INTRODUCTION TO MODERN ALGEBRA (3) Butner, Spring
 Elementary theory of groups, fields, and rings. Prereq., 301, or 321. (2nd sem., yearly.)

331-332. THEORY OF STATISTICS (3-3) Butner
 Probability, distributions of one and several variables, sampling theory, estimation of parameters, confidence intervals, analysis of variance, correlation and testing of statistical hypotheses. Prereq., 102. (Yearly.)

341-342. ADVANCED CALCULUS (3-3) Mack, Wyzalek
 Critical treatment of limits, continuity, differentiation of functions of one and several variables, series, and theory of integration. Prereq., 102 for 341. (Yearly.)

343-344. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE (3-3) Marquis, Shankar
 Prereq., 215 or 341 for 343. (1964-65.)

346. THEORY OF FUNCTIONS OF REAL VARIABLES (3) Mack
 Prereq., 341. (2nd sem., 1965-66.)

347. POINT SET TOPOLOGY (3) Mack
 An introduction to set theory and general topological spaces with an emphasis on the study of metric spaces. Prereq., 341. (1st sem., 1965-66.)

361. STUDIES IN MATHEMATICS (1 to 6) Staff
 Selected topics in mathematics are studied under the guidance of an instructor particularly interested in the field. Maximum credit, 6 hours. Prereq., 18 hours, permission.

362. SELECTED TOPICS IN MATHEMATICS (3) Staff
 Maximum credit in course, 6 hours. Prereq., 102 and permission. (Each sem.)

495. THESIS (1 to 6) Staff
 Prereq., permission.

MEDICAL TECHNOLOGY—See Zoology

MODERN LANGUAGES

Professors Flum, Krauss, Renkenberger (chairman)
 Associate Professors Cameron, Rice
 Assistant Professors Gomez-Gil, Hammer, Lynch
 Instructors Anderson, Bolen, Brantley, Brogan, Burns,
 Chesaux, Davis, Fiber, Franks, Ipacs,
 Perez, Richardson, Smith, Worthington

The major requirement for the A.B. degree is a minimum of 16 hours at the 200 level or above, including 201, 202, 209, 210, and at least 6 hours in 300 level courses. Students planning to do graduate work in any Romance Language are strongly urged to acquire a background of training in Latin.

MODERN LANGUAGES

265. TEACHING OF FOREIGN LANGUAGES (2) Staff
Prereq., 102 in a foreign language.

FRENCH

1-2. BEGINNING FRENCH (4-4) Staff
(Completion after 2 yrs. h.s. French adds 8 hrs. to graduation requirement.) (Yearly.)

101-102. INTERMEDIATE FRENCH (4-4) Staff
Prereq., 2 or 2 yrs. high school French. (Yearly.)

201, 202. SURVEY OF FRENCH LITERATURE (3, 3) Staff
Prereq., 102 or 4 yrs. high school French. (Yearly.)

203, 204. READINGS IN FRENCH LITERATURE (2, 2) Staff
Prereq., 102 or 4 yrs. high school French.

209-210. COMPOSITION AND GRAMMAR REVIEW (2-2) Staff
Prereq., 102 or 4 yrs. high school French. (Yearly.)

213. FRENCH CONVERSATION (3) Staff
Prereq., 102 or 4 yrs. high school French. (Each sem.)

215. FRENCH PHONETICS (2) Staff
Prereq., 102. (As needed.)

316. FRENCH RENAISSANCE (3) Staff
Prereq., 4 hrs. at the 200 level. (1st sem., 1964-65.)

317. FRENCH CLASSICISM (3) Staff
Prereq., 4 hrs. at the 200 level. (2nd sem., 1964-65.)

318. AGE OF ENLIGHTENMENT (3) Staff
Prereq., 4 hrs. at 200 level. (1st sem., 1965-66.)

319. NINETEENTH CENTURY FRENCH LITERATURE (3) Staff
Prereq., 4 hrs. at 200 level. (2nd sem., 1965-66.)

320. CONTEMPORARY FRENCH LITERATURE (3) Staff
Prereq., 4 hrs. at 200 level. (1964-65.)

351. ADVANCED COMPOSITION AND STYLE (2) Staff
Prereq., 210 and 2 hrs. at 300 level. (1st sem., 1965-66.)

352. ADVANCED CONVERSATION AND PHONETICS (2) Staff
Prereq., 213 and 2 hrs. at 300 level. (2nd sem., 1965-66.)

371, 372. ADVANCED FRENCH (1 to 3, 1 to 3) Staff
Prereq., 2 hrs. at 300 level and consent of chairman. (As needed.)

399. BIBLIOGRAPHY AND RESEARCH PROBLEMS (2) Staff
Prereq., 2 hrs. at 300 level. (As needed.)

401, 402. FRENCH FOR GRADUATE READING REQUIREMENT (0, 0) Staff
(As needed.)

421, 422. ROMANCE PHILOLOGY (OLD FRENCH) (2-2) Staff
(1965-66.)

471, 472. READING AND RESEARCH (1 to 4, 1 to 4) Staff

481, 482. SEMINAR (2, 2) Staff
 495. THESIS (1 to 6) Staff
 Prereq., permission.

GERMAN

1-2. BEGINNING GERMAN (4-4) Staff
 (Completion after 2 yrs. h.s. German adds 8 hrs. to graduation requirement.) (Yearly.)

101-102. INTERMEDIATE GERMAN (4-4) Staff
 Prereq., 2 or 2 yrs. high school German. (Yearly.)

103. SCIENTIFIC GERMAN (4) Staff
 This course is intended especially for science majors and will fulfill the language requirement in lieu of 102. Prereq., 101 or 3 yrs. high school German. (2nd sem., yearly.)

201, 202. SURVEY OF GERMAN LITERATURE (3, 3) Staff
 Prereq., 102 or 4 yrs. high school German. (Yearly.)

203, 204. READINGS IN GERMAN LITERATURE (2, 2) Staff
 Prereq., 102 or 4 yrs. high school German. (1964-65.)

209-210. COMPOSITION AND GRAMMAR REVIEW (2-2) Staff
 Prereq., 102 or 4 yrs. high school German. (Yearly.)

213. GERMAN CONVERSATION (3) Staff
 Prereq., 102 or 4 yrs. high school German. (Each 2nd sem.)

311, 312. NINETEENTH CENTURY GERMAN DRAMA (3, 3) Staff
 Prereq., 4 hrs. at 200 level. (1965-66.)

313. CLASSICAL GERMAN DRAMA (3) Staff
 Prereq., 4 hrs. at 200 level. (1st sem., 1964-65.)

314. GOETHE'S FAUST (3) Staff
 Prereq., 4 hrs. at 200 level. (2nd sem., 1964-65.)

319, 320. NINETEENTH CENTURY GERMAN SHORT STORY (2, 2) Staff
 Prereq., 102 or 4 yrs. at 200 level. (1965-66.)

321. CONTEMPORARY GERMAN SHORT STORY (2) Staff
 Prereq., 4 hrs. at 200 level. (2nd sem., 1964-65.)

323. GERMAN LYRICS AND BALLADS (2) Staff
 Prereq., 4 hrs. at 200 level. (1st sem., 1965-66.)

326. TWENTIETH CENTURY GERMAN DRAMA (3) Staff
 Prereq., 4 hrs. at 200 level. (2nd sem., 1964-65.)

327. BAROQUE AND ENLIGHTENMENT (3) Staff
 Prereq., 4 hrs. at 200 level. (2nd sem., 1965-66.)

351. ADVANCED COMPOSITION AND STYLE (2) Staff
 Prereq., 210 and 2 hrs. at 300 level. (1st sem., 1965-66.)

352. ADVANCED CONVERSATION AND PHONETICS (2) Staff
 Prereq., 213 and 2 hrs. at 300 level. (2nd sem., 1965-66.)

371, 372. ADVANCED GERMAN (1 to 3, 1 to 3) Staff
 Prereq., 2 hrs. at 300 level and consent of chairman. (As needed.)

399. BIBLIOGRAPHY AND RESEARCH PROBLEMS	(2)	Staff
Prereq., 2 hrs. at 300 level. (Given upon sufficient demand.)		
401, 402. GERMAN FOR GRADUATE READING REQUIREMENT	(0, 0)	Staff
(Yearly.)		
421-422. GERMAN PHILOLOGY (MIDDLE HIGH GERMAN)	(2-2)	Staff
(1964-65.)		
423. GERMAN LITERATURE OF THE MIDDLE AGES	(3)	Staff
Prereq., 422. (1st sem., 1964-65.)		
471, 472. READING AND RESEARCH	(1 to 4, 1 to 4)	Staff
481, 482. SEMINAR	(2, 2)	Staff
495. THESIS	(1 to 6)	Staff
Prereq., permission.		

RUSSIAN

1-2. BEGINNING RUSSIAN	(4-4)	Staff
(Completion after 2 yrs. h.s. Russian adds 8 hrs. to graduation requirement. (Yearly.))		
101-102. INTERMEDIATE RUSSIAN	(4-4)	Staff
Prereq., 2 or 2 yrs. high school Russian. (Yearly.)		
201, 202. INTRODUCTION TO RUSSIAN LITERATURE	(3, 3)	Staff
Prereq., 102 or 4 yrs. high school Russian. (Yearly.)		
205, 206. READINGS IN SOVIET LITERATURE	(2, 2)	Staff
Prereq., 102 or 4 yrs. high-school Russian (Yearly.)		
209-210. COMPOSITION AND GRAMMAR REVIEW	(2-2)	Staff
Prereq., 102 or 4 yrs. high school Russian. (Yearly.)		
319, 320. NINETEENTH CENTURY RUSSIAN POETRY	(3, 3)	Staff
Pushkin, Lermontov. Prereq., 4 hrs. at 200 level. (1964-65.)		
321, 322. NINETEENTH CENTURY RUSSIAN NOVEL	(3, 3)	Staff
Gogol, Turgenev, Tolstoy, Dostoevsky. Prereq., 4 hrs. at 200 level. (1965-66.)		
371, 372. ADVANCED RUSSIAN	(1 to 3, 1 to 3)	Staff
Prereq., 2 hrs. at 300 level and consent of chairman.		

SPANISH

1-2. BEGINNING SPANISH	(4-4)	Staff
(Completion after 2 yrs. h.s. Spanish adds 8 hrs. to graduation requirement. (Yearly.))		
101-102. INTERMEDIATE SPANISH	(4-4)	Staff
Prereq., 2 or 2 yrs. high school Spanish. (Yearly.)		
201, 202. SURVEY OF SPANISH LITERATURE	(3, 3)	Staff
Prereq., 102 or 4 yrs. high school Spanish. (Yearly.)		
203, 204. READINGS IN SPANISH LITERATURE	(2, 2)	Staff
Prereq., 102 or 4 yrs. high school Spainsh. (1964-65.)		

205, 206. READINGS IN SPANISH-AMERICAN LITERATURE (2, 2) Staff
Prereq., 102 or 4 yrs. high school Spanish. (1965-66.)

209-210. COMPOSITION AND GRAMMAR REVIEW (2-2) Staff
Prereq., 102 or 4 yrs. high school Spanish. (Yearly.)

213. SPANISH CONVERSATION (3) Staff
Prereq., 102 or 4 yrs. high school Spanish. (Each sem.)

305. DRAMA OF THE GOLDEN AGE (3) Staff
Prereq., 4 hrs. at 200 level. (1st sem., 1964-65.)

306. NOVEL OF THE GOLDEN AGE (3) Staff
Prereq., 4 hrs. at 200 level. (2nd sem., 1964-65.)

308. CERVANTES (2) Staff
Prereq., 4 hrs. at 200 level. (1st sem., 1965-66.)

309. SPANISH MEDIEVAL LITERATURE (2) Staff
Prereq., 2 hrs. at 300 level. (2nd sem., 1965-66.)

311, 312. SPANISH-AMERICAN LITERATURE (3, 3) Staff
Prereq., 4 hrs. at 200 level. (1965-66.)

313. NINETEENTH CENTURY SPANISH LITERATURE (3) Staff
Prereq., 4 hrs. at 200 level. (1st sem., 1964-65.)

314. CONTEMPORARY SPANISH LITERATURE (3) Staff
Prereq., 4 hrs. at 200 level. (2nd sem., 1964-65.)

351. ADVANCED COMPOSITION AND STYLE (2) Staff
Prereq., 210 and 2 hrs. at 300 level. (1st sem., 1965-66.)

352. ADVANCED CONVERSATION AND PHONETICS (2) Staff
Prereq., 213 and 2 hrs. at 300 level. (2nd sem., 1965-66.)

371, 372. ADVANCED SPANISH (1 to 3, 1 to 3) Staff
Prereq., 2 hrs. at 300 level and consent of chairman. (Given upon sufficient demand.)

399. BIBLIOGRAPHY AND RESEARCH PROBLEMS (2) Staff
Prereq., 2 hrs. at 300 level. (Given upon sufficient demand.)

401, 402. SPANISH FOR GRADUATE READING REQUIREMENT (0, 0) Staff
(Given upon sufficient demand.)

421-422. ROMANCE PHILOLOGY (OLD SPANISH) (2-2) Staff
(1964-65.)

471, 472. READING AND RESEARCH (1 to 4, 1 to 4) Staff

481, 482. SEMINAR (2, 2) Staff

495. THESIS (1 to 6) Staff
Prereq., permission.

MUSIC

Professor Ahrendt (director)

Associate Professors Crews, Jennings, Minelli,

Peterson, Stephenson

Assistant Professors Boxberger, Brophy, Conkling,
Hall, Harbachick, Hodkinson, Kaneshige, Katz, Longstreet,

Merritt, R. Smith, Thackrey, Wickstrom, Witzler

Instructors Bors, Geary, Jackson

Lecturers Henderson, Sanov, Suess

APPLIED MUSIC

Private instructional fee for all applied music (piano, voice, organ, strings, woodwind, brass, percussion), \$25 a semester hour.

(Note: A description of the proficiency requirements for applied music may be secured from the School of Music.)

VOICE (1 to 3) Harbachick, Jackson, Merritt, Peterson

Prereq., permission.

PIANO (1 to 3) Geary, Jennings, Katz, Longstreet

Prereq., permission.

HARP (1 to 3) Staff

Prereq., permission.

ORGAN (1 to 3) Wickstrom

Prereq., permission.

STRINGED INSTRUMENTS: Violin, Viola, Violoncello, Bass (1 to 3) Conkling, Sanov

Prereq., permission.

WOODWIND INSTRUMENTS: Flute, Oboe, Clarinet, Bassoon (1 to 3) Hodkinson, Witzler

Prereq., permission.

BRASS INSTRUMENTS: Trumpet, Baritone, Horn, Trombone, Tuba (1 to 3) Brophy, Smith

Prereq., permission.

PERCUSSION INSTRUMENTS (1 to 3) Minelli

Prereq., permission.

BRASS CHOIR (1) Brophy

Prereq., permission.

UNIVERSITY BANDS (1) Brophy, Minelli

Open to men and women students. Prereq., permission.

UNIVERSITY CHORUS (1) Wickstrom

Open to men and women students. Prereq., permission.

UNIVERSITY SINGERS (1) Wickstrom

Open to men and women students. Prereq., permission.

UNIVERSITY SYMPHONY ORCHESTRA (1) Ahrendt, Sanov

Open to men and women students. Prereq., permission.

MEN'S GLEE CLUB (1) Peterson

Prereq., permission.

WOMEN'S GLEE CLUB (1) Merritt

Prereq., permission.

66-67. CLASS PIANO (1-1) Bors
Prereq., permission.

251-252. CHAMBER MUSIC (1-1) Staff
Participation in the playing of the standard chamber music literature. Prereq., permission. Maximum credit in course, 6 hrs.

273. CONDUCTING (2) Sanov
Fundamentals of conducting, accompanied by individual practice in conducting. For music majors only; open to others by permission. Prereq., 104, 106.

331. PIANO ENSEMBLE (1) Staff
Participation in the playing of original works or arrangements for two pianos. Prereq., permission.

332. VOCAL ENSEMBLE (1) Staff
Participation in the singing of standard madrigal and motet literature. Maximum credit in course, 4 hrs. Prereq., permission.

375. ADVANCED CONDUCTING (1 to 4) Ahrendt
An opportunity for study and practical experience in either choral or instrumental conducting. Maximum credit in course, 6 hrs. Prereq., 273, permission.

399. APPLIED MUSIC a, b, c, d, e, f (1 to 4) Staff
Open to graduate students only, in the minor area. Maximum credit in course, 4 hrs.
a. Voice
b. Piano
c. Stringed Instruments
d. Woodwind Instruments
e. Brass Instruments
f. Percussion Instruments

431. VOICE (1 to 4) Harbachick, Jackson, Merritt, Peterson
Maximum credit in course, 16 hrs. Prereq., permission.

433a. PIANO (1 to 4) Jennings, Katz, Longstreet
Maximum credit in course, 16 hrs. Prereq., permission.

433b. ORGAN (1 to 4) Wickstrom
Maximum credit in course, 16 hrs. Prereq., permission.

435. ENSEMBLE (1 to 4) Staff
Maximum credit in course, 16 hrs. Prereq., permission.

437. STRINGED INSTRUMENTS (1 to 4) Conkling, Sanov
Maximum credit in course, 16 hrs. Prereq., permission.

438. BRASS INSTRUMENTS (1 to 4) Brophy, Smith
Maximum credit in course, 16 hrs. Prereq., permission.

439. WOODWIND INSTRUMENTS (1 to 6) Hodkinson, Witzler
Maximum credit in course, 16 hrs. Prereq., permission.

495. RECITAL (1 to 4) Staff
A full-length public recital, a recording of which will be filed in the library, in lieu of a thesis. Prereq., permission.

MUSIC HISTORY AND LITERATURE

5. MUSIC APPRECIATION (2) Boxberger, Thackrey
The form and meaning of music masterpieces. Not open to music majors or those who have received credit for F.A. 123-124.

337. THE LITERATURE OF VOCAL MUSIC (2) Suess
Prereq., F.A. 124.

338. THE LITERATURE OF ORCHESTRAL MUSIC (2) Suess
Prereq., F.A. 124.

339. THE EVOLUTION OF THE OPERA (2) Suess
Prereq., F.A. 124.

340. THE LITERATURE OF PIANO MUSIC (2) Jennings
The development of the instrument, the primary forms adapted to it, and the representative composers. Prereq., F.A. 124.

344. CONTEMPORARY MUSIC (3) Suess
Music as an artistic expression of our time; a study of the various styles since c.1900. Prereq., F.A. 124, permission.

401-402. MUSIC LITERATURE (3-3) Suess
Prereq., F.A. 124, permission.

441. MUSIC OF THE MEDIEVAL AND RENAISSANCE PERIODS (3) Suess
Music as an artistic expression of the Medieval and Renaissance periods; a history of the evolution of musical styles up to c.1600. Prereq., F.A. 124, permission

442. MUSIC OF THE BAROQUE PERIOD (3) Suess
Music as an artistic expression of the Baroque period; a history of the evolution of musical styles c.1600-c.1750. Prereq., F.A. 124, permission.

443. MUSIC OF THE CLASSIC AND ROMANTIC PERIODS (3) Suess
Music as an artistic expression of the Classic and Romantic periods; a history of the evolution of music styles c.1750-1900. Prereq., F.A. 124, permission.

495. THESIS (1 to 6) Staff
Prereq.. permission.

THEORY AND COMPOSITION

3-4. THEORY (3-3) Hall, Hodkinson, Kaneshige
A beginning study of the melodic, harmonic, and rhythmic principles of music and its notation. 5 hrs. a week.

103-104. DICTATION AND SIGHT SINGING (2-2) Hall, Hodkinson, Kaneshige
Should be taken concurrently with 105-106. 3 hrs. a week. Prereq., 4 with a minimum grade of C.

105-106. HARMONY (3-3) Hall, Hodkinson, Kaneshige
Harmonization of melodies and figured basses, both written and at the keyboard. 4 hrs. a week. Prereq., 4 with a minimum grade of C.

201-202. ANALYSIS AND FORM (2-2) Kaneshige
Harmonic and structural analysis of music composition. Prereq., 106.

233. INSTRUMENTATION (3) Minelli
The various band instruments from the standpoint of their range and band uses. Arranging for small ensembles. Prereq., 106.

307-308. ARRANGING AND SCORING FOR BANDS (2-2) Minelli
Prereq., 104, 233.

313-314. ORCHESTRATION (2-2) Ahrendt, Hodkinson
Scoring for small, medium, and full orchestra. Prereq., 104, 106.

315-316. ADVANCED HARMONY (2-2) Hall
The evolution of harmony to the present, including the new methods of chord structure in modern harmony. Prereq., 104, 106.

317-318. SIXTEENTH CENTURY COUNTERPOINT (2-2) Hodkinson
Based on the practices and styles of Palestrina. Prereq., 104, 106.

319-320. COMPOSITION (2-2) Ahrendt
Original writing in the smaller forms. Prereq., 104, 106.

367. COUNTERPOINT (2) Hall
Counterpoint in two, three, or four parts. Study of the invention, imitation and fugue. Prereq., 104, 106.

368. ADVANCED FUGUE (2) Hall
Based on the eighteenth century style of Bach. Prereq., 318.

371-372. COMPOSITION (2-2) Ahrendt
Original writing in the larger forms. Prereq., 320.

381. RESEARCH IN MUSIC (1 to 4) Staff
Prereq., 30 hrs. or the equivalent, permission.

403. SEMINAR IN MUSIC (1) Staff
Reports on research by students or faculty, for discussion. Required of all graduate students enrolled in the School of Music. Required credit in course, 2 hrs. Prereq., permission. (Yearly.)

407-408. EVOLUTION OF HARMONIC THEORY (2-2) Hall
A study of the writings of the most important music theorists from the tenth century to the present. Prereq., 106, F.A. 124, 1 yr. of Cpt., 202, 314, 316.

419. MODERN COUNTERPOINT (2) Hall
Based on the techniques of recent and contemporary composers. Prereq., 318.

425-426. COMPOSITION (2-2) Ahrendt
Extensive writing in the larger vocal and instrumental forms. Prereq., 372.

427-428. ADVANCED ORCHESTRATION (2-2) Ahrendt
Problems in scoring original works for the modern symphony orchestra. Satisfactory scores are performed by the University Symphony Orchestra. Prereq., 314, 318.

495. THESIS (1 to 6) Staff
Prereq., permission.

MUSIC EDUCATION

72. MUSIC FUNDAMENTALS (2) Staff
3 hrs. a week.

261. STRING TECHNIQUES AND MATERIALS (2) Conkling
3 hrs. a week. Maximum credit in course, 4 hrs.

262. MUSIC FOR THE CLASSROOM TEACHER (2) Crews, Henderson, Stephenson
Open to elementary classroom teachers only. Prereq., 72.

263. WIND AND PERCUSSION TECHNIQUES AND MATERIALS (2) Staff
Maximum credit in course, 6 hrs. 5 labs.

265. VOCAL TECHNIQUES AND MATERIALS (2) Stephenson

266. TEACHING OF MUSIC IN THE ELEMENTARY GRADES (3 to 6) Crews, Henderson
Music materials and methods for elementary music majors only.
Prereq., 106.

267. SUPERVISION AND ADMINISTRATION OF MUSIC
IN THE PUBLIC SCHOOLS (3) Stephenson
(For music majors only.) Prereq., with Ed. 229.

268. GENERAL MUSIC FOR ADOLESCENTS AND ADULTS (3) Henderson
For music majors only. Prereq., 106.

269. SOCIAL AND RECREATIONAL INSTRUMENTS AND MATERIALS (2) Boxberger
Prereq., permission.

376a, b, c. MUSIC WORKSHOP (1 to 4) Staff
Maximum credit in course, 6 hrs.
a. Music Clinic-Workshop (Summer only.)
b. Opera Workshop
c. Elementary Music Workshop (Summer only.)

470. CONTEMPORARY TRENDS IN MUSIC EDUCATION (2) Stephenson
Prereq., permission.

471. PROBLEMS IN THE SUPERVISION OF VOCAL MUSIC (2) Stephenson
2 lec.; lab as required. Prereq., 265, 266, 267, 2 hrs. observation,
4 hrs. student teaching.

472. PROBLEMS IN THE SUPERVISION OF INSTRUMENTAL MUSIC (3) Minelli
2 lec.; lab as required. Prereq., 261, 263, 2 hrs. observation, 4 hrs.
student teaching.

473. EXPERIMENTAL STUDIES IN MUSIC (3) Boxberger
Psychological investigations bearing upon musical composition,
performance, and appreciation. 2 lec., 2 labs. Prereq., permission.

495. THESIS (1 to 6) Staff
Prereq., permission.

MUSIC THERAPY

274. CLINICAL EXPERIENCE I (1) Boxberger and staff
Orientation to, observations of, and selected experiences in hospitals.
Credit, without grade, upon satisfactory completion.

374. PSYCHOLOGICAL FOUNDATIONS OF MUSIC (3) Boxberger
2 lec., 2 lab. Prereq., permission.

377. BACKGROUND OF MUSIC THERAPY (2) Boxberger
 A study of the theoretical and experimental bases for the influence of music on behavior. Prereq., 374 or concurrently, permission.

379. MUSIC THERAPY (2) Boxberger
 A study of the uses of music in therapy. Prereq., 377, permission.

380. CLINICAL EXPERIENCE II (2) Boxberger and staff
 Six months as a full-time music therapy intern in an approved psychiatric hospital, served after completion of the senior year. Prereq., completion of senior year in music therapy. Credit, without grade, upon satisfactory completion.

PHILOSOPHY

Professors Murphree (chairman), Organ
 Associate Professor Wieman
 Assistant Professors Barnes, Grean, Zweig
 Instructor Ruchti

The major requirement for the A.B. degree consists of a minimum of 24 hours, including 110, 221, 222, and at least three courses in the 300 group.

1. PRINCIPLES OF REASONING (3) Staff
 The use of evidence in establishing reliable conclusions. Not open to juniors and seniors. (Each sem.)

2. MORAL PHILOSOPHIES (3) Grean, Murphree
 Types of ethical theory, the bases of moral decision, and the nature of values. Not open to juniors and seniors. (Each sem.)

103. OLD TESTAMENT THOUGHT (3) Grean
 The background and development of the Old Testament; its philosophical, moral, and religious significance. (1st sem., yearly.)

104. NEW TESTAMENT THOUGHT (3) Grean
 The background and development of the New Testament; the philosophical, moral, and religious significance of the beliefs of Jesus, Paul, and the early Church. (2nd sem., yearly.)

107. HISTORY OF RELIGIONS: FAR EAST (3) Organ
 Primitive religion, Hinduism, Buddhism, Taoism, Confucianism, and Shinto. (1st sem., yearly.)

108. HISTORY OF RELIGIONS: NEAR EAST (3) Organ
 Nature of religion, Greek, Egyptian, Babylonian, Zoroastrianism, Judaism, Christianity, and Islam. Prereq., 107. (2nd sem., yearly.)

109. LOGIC (3) Barnes, Ruchti
 An introduction to the techniques of modern symbolic logic. (Each sem.)

110. INTRODUCTION TO PHILOSOPHY (3) Staff
 An analysis of typical philosophical problems arising in the study of nature, society, and religion for the purpose of developing a thoughtful and consistent intellectual perspective. (Each sem.)

117. SOCIAL PHILOSOPHY (2) Murphree
 Basic types of social and political philosophies, classical and modern. (1st sem., yearly.)

201. ETHICS (3) Wieman
A comparison of theories of the right and the good which enter into contemporary thought. (Each sem.)

206. PHILOSOPHY OF SCIENCE (3) Ruchti, Zweig
Basic concepts common to the various sciences. Prereq., 109. (2nd sem., yearly.)

212. AMERICAN PHILOSOPHY (2) Barnes, Murphree
Begins with transcendentalism and includes pragmatism, naturalism, and idealism. Prereq., 110. (1st sem., yearly.)

221. HISTORY OF WESTERN PHILOSOPHY: ANCIENT AND MEDIEVAL (3) Organ
Significant ideas of representative philosophers from 600 B.C. to 1600 A.D. (1st sem., yearly.)

222. HISTORY OF WESTERN PHILOSOPHY: MODERN (3) Wieman
Significant ideas of representative philosophers since 1600. (2nd sem., yearly.)

225. PHILOSOPHY OF CULTURE (3) Barnes
The unity and interrelationship of art, religion, science, and common sense; man as a culture-creating being. (2nd sem., yearly.)

302. AESTHETICS (3) Grean
Selected theories of the nature of art and aesthetic experience and the relation of art to other aspects of human culture. Prereq., 6 hrs. (2nd sem., yearly.)

304. CONTEMPORARY SOCIAL PHILOSOPHY (2) Murphree
Prereq., 6 hrs., or 3 hrs. and 6 hrs. of social science. (2nd sem., 1965-66.)

305. THEORY OF KNOWLEDGE (3) Ruchti
A critical examination of various views of what knowledge is and how it is attained. Prereq., 6 hrs. (2nd sem., yearly.)

308. EASTERN PHILOSOPHY (2) Organ
Selected philosophers and systems of philosophy of India and China. Prereq., 6 hrs., including 107. (2nd sem., 1964-65.)

310. PRAGMATISM (2) Murphree
Peirce, James, Dewey. Prereq., 6 hrs. (2nd sem., 1964-65.)

311. METAPHYSICS (2) Wieman
Basic assumptions underlying different conceptions of the world with special attention to materialism, formism, idealism, and contextualism. Prereq., 6 hrs. (1st sem., 1964-65; 2nd sem., 1965-66.)

315. PHILOSOPHY OF RELIGION (2) Grean
Contemporary thought on the nature of religion, religious symbolism, and the relation of religion and culture. Prereq., 6 hrs. (1st sem., yearly.)

317. CONTEMPORARY PHILOSOPHY (2) Zweig
Modern positivism and linguistic analysis. Prereq., 6 hrs. (1st sem., 1964-65.)

321. PLATO (3) Wieman
Prereq., 6 hrs. (1st sem., 1965-66.)

322. ARISTOTLE (2) Organ
Prereq., 6 hrs. (2nd sem., 1965-66.)

331. CONTINENTAL IDEALISM (2) Barnes
Kant, Schelling, and Hegel. Prereq., 6 hrs. (1st sem., 1964-65.)

333. EXISTENTIALISM (2) Staff
The development of existentialism from Kant through Schopenhauer to Camus. Prereq., 6 hrs. (1st sem., 1965-66.)

341. LOGICAL THEORY (3) Ruchti
Axiomatic formalization of logic, mathematical proof, and topics in metalogic. Prereq., 109 or 3 hrs. math. beyond 102. (2nd sem., 1964-65.)

391. SEMINAR IN PHILOSOPHY (1 to 3) Staff
Selected problems. Maximum credit in course, 6 hrs. Prereq., 15 hrs. (1st sem., yearly.)

495. THESIS (1 to 6) Staff
Prereq., permission.

PHOTOGRAPHY

Assistant Professor Truxell

Lecturers Allen, J. Anderson, White (chairman)

77-78. BASIC PHOTOGRAPHY (3-3) Allen
1 lec., 4 lab.

133. BASIC NEWS PHOTOGRAPHY (3) Truxell
Introduction to the camera and the visual image. Experience in basic techniques and practices adaptable to news reporting. (Not open to photog. majors.) 1 lec., 4 lab.

143-144. PHOTOGRAPHIC PROCESSES (3-3) White
History of photographic processes, photographic optics, photochemistry, sensitometry, photographic printing processes, and mechanical reproduction methods. 3 lec. Prereq., 78.

145-146. WORKSHOP IN PHOTOGRAPHY (3-3) Allen
Individual practice in basic problems of photographic design and technique. 6 lab. Prereq., 78 or permission.

251-252. NEWSPAPER AND MAGAZINE PHOTOGRAPHY (3-3) Truxell
Photographic techniques for newspaper picture reporting, including engraving problems, ethics, libel, and the law; introduction to the picture story and related problems. 1 lec., 4 lab. Prereq., 144, 146 or permission.

377-378. PORTRAITURE (3-3) Truxell
Traditional and experimental approaches to portraying the human face, the human figure in fashion and the dance, and certain situations dominated by people. Prereq., 144, 146 or permission.

379-380. COMMERCIAL AND ILLUSTRATIVE PHOTOGRAPHY (3-3) White
Studio and location work in commercial, advertising, industrial, and architectural photography. Introduction to problems of studio operation and free-lance photography. 1 lec., 4 lab. Prereq., 378 or permission.

381. PROBLEMS IN PHOTOGRAPHY (3) Staff
Individual study and practice in a specialized phase of photography under instructor's supervision. Maximum credit in any one phase or combination of phases, 12 hrs. 6 lab.

a. Individual selection of approved problems in photographic design, technique, or practice. 6 lab. Prereq., 377.

- b. Advanced theory and practice in picture stories and their production. 6 lab. Prereq., 252, 377 or permission.
- c. 16 mm motion picture production. 6 lab. Prereq., 144, 146 or permission.
- d. Special problems in color photography. 6 lab. Prereq., 391.

391-392. COLOR PHOTOGRAPHY (5-5) White

Theory of color photography, practice with color transparency materials, direct separations, separations from transparencies, masking, color printing. 1 lec., 8 lab. Prereq., 378, permission.

481. RESEARCH IN PHOTOGRAPHY (1 to 4) Staff

Maximum credit in course, 8 hrs. Prereq., 20 hrs., including 381, permission.

495. THESIS (1 to 6) Staff

Prereq., permission.

PHYSICAL EDUCATION AND ATHLETICS

Associate Professors LaTourrette, Mason, Miller, Nessley, Rhoads, Rohr (director), Trepp, Widdoes

Assistant Professors Blosser, Gillespie, Heffelfinger, Hess, Huntsman, Kappes, McComb, Mourouzis, O'Neal, Phillips, Richey, Schleicher, Snyder, Wren
Instructors Bandy, Campbell, Gilders, Hart, Jacoby, Moldenhauer, Wagner, Simpson

ROHR, director of the division; NESSLEY, associate director of the division; WREN, assistant director of intercollegiate athletics and head baseball coach; MASON, chairman, graduate program, teacher education; TREPP, chairman, major curriculum, health education; RHOADS, intramural athletics, men; WIDDOWES, sports, tennis coach; O'NEAL, recreation, practice teaching critic; HUNTSMAN, head track coach, teacher education; GILDERS, aquatics, men; SNYDER, head basketball coach; BLOSSER, head golf coach, freshman basketball coach; HESS, head football coach; HEFFELFINGER, football; RICHEY, football; KAPPES, football; MOUROUZIS, football; McCOMB, ice hockey and soccer coach, ice skating; SCHLEICHER, teacher education, wrestling coach; HART, athletic trainer; WAGNER, freshman football and baseball coach; JACOBY, supervising critic, Putnam School; BANDY, sports, assistant basketball coach.

MILLER, chairman, women's program; LaTOURRETTE, recreation; GILLESPIE, intramural and extramural sports, women; PHILLIPS, health education; MOLDENHAUER, aquatics, women; CAMPBELL, sports, women; SIMPSON, modern dance.

SCHUMACHER, business manager, intercollegiate athletics; MORGAN, sports information director.

SERVICE COURSES

The physical education program is designed for the diversified interests and abilities of men and women in the University. Students may elect freely from those courses which appeal to them but should avoid repetition of one sport or activity for the fulfillment of their physical education requirement.

The asterisk (*) indicates those courses which may be repeated once. For women this may be done by permission. No student may use more than two credit hours in the same sport or activity toward a degree requirement.

For a detailed statement of the university requirement in physical education refer to the Physical Education and Athletics section of the catalog.

MEN

1. 2. TEAM SPORTS (or Basic Skills)	(1, 1) Blosser, staff
Activities adaptable to team and league play.	
11. VOLLEYBALL, HANDBALL, BADMINTON	(1) Staff
Students may rotate activities during the semester.	
19. GYMNASTICS*	(1) Staff
Tumbling, stunts, apparatus, pyramids, and trampoline.	
20. GYMNASTICS, ADVANCED	(1) Staff
21. WRESTLING*	(1) Schleicher
23. TRACK AND CROSS COUNTRY*	(1) Huntsman
24. SOCCER*	(1) McComb, staff
25. FOOTBALL*	(1) Hess, staff
Prereq., permission.	
27. BASEBALL*	(1) Wren
Prereq., permission.	
29. BASKETBALL*	(1) Snyder
31. SWIMMING*	(1) Gilders
Prereq., permission.	
33. HANDBALL	(1) Staff
35. SQUASH RACQUETS	(1) Staff
39. DIVING FUNDAMENTALS	(1) Staff
51. ICE HOCKEY*	(1) McComb
Prereq., permission.	
52. LACROSSE	(1) McComb, staff

MEN - WOMEN

1. DANCING: SOCIAL, FOLK, SQUARE	(1) O'Neal, staff
3. BEGINNING SWIMMING	(1) Gilders, Moldenhauer
For students who are unable to swim.	
4. INTERMEDIATE SWIMMING*	(1) Gilders, Moldenhauer
For students who have passed a beginner's swimming test or can swim; instruction and practice in the basic strokes, plain and surface diving. Prereq., 3 or equivalent.	
5. ADVANCED SWIMMING	(1) Gilders, Moldenhauer
For those who have passed the Red Cross Swimmers' Test or its equivalent. The analysis and skills of diving, the recognized strokes and their variations, and fundamentals of competitive swimming. Prereq., 4 or permission.	

7. BEGINNING MODERN DANCE (1) Simpson
Fundamentals of movement technique in relation to time, space and dynamics. (Not ballroom dancing.)

8. INTERMEDIATE MODERN DANCE* (1) Simpson
Studies in technique and dance forms. Prereq., 7 or permission.

9, 10. ADAPTED ACTIVITIES* (1, 1) Miller, Trepp
Students whose physical activities should be restricted are assigned to those activities adapted to their special needs. Prereq., medical permission.

15, 16. FOLK AND NATIONAL DANCING (1, 1) Staff
American square and European dances. 16 is a continuation of 15.

17. BEGINNING TENNIS (1) Staff
Skills, court strategy, and rules.

18. INTERMEDIATE TENNIS* (1) Staff
A continuation of 17. Prereq., 17 or experience.

37. FENCING (1) Nessley
Instruction in foil fencing.

38. ADVANCED FENCING (1) Nessley
A continuation of 37.

41. BEGINNING GOLF (1) Blosser, Campbell, staff

42. INTERMEDIATE GOLF* (1) Blosser, staff
Prereq., 41 or playing experience.

45. BEGINNING BOWLING (1) Widdoes, staff
Pin fee \$12.50.

47. RIDING (1) Staff
At McAfee Farm. Fee \$20.00.

49. BEGINNING SKATING (1) McComb, staff

50. FIGURE SKATING* (1) McComb, staff
Instruction in U.S.F.S.A. compulsory figures; development of a free skating routine. Prereq., mastery of all edges, two turns, two jumps and two stops.

115, 116. ADVANCED MODERN DANCE* (1, 1) Simpson
The more complex coordinations and movement studies. Experimentation in form and composition. Prereq., permission.

118. LIFE SAVING AND WATER SAFETY (1) Gilders, Moldenhauer
Techniques included in the test for American Red Cross Senior Life Saving certificate. Prereq., 5 or permission.

120. INSTRUCTOR'S LIFE SAVING AND WATER SAFETY (1) Gilders, Moldenhauer
For those who have been certified as American Red Cross Senior Life Savers, Prereq., 118.

WOMEN

Courses numbered 1 through 138 may be used to satisfy the physical education requirement.

1. 2. SPORTS (or Basic Movement) (1, 1) Staff

Students choose from field hockey, soccer, basketball, volleyball, softball, archery, badminton, and trampoline and tumbling; may be repeated if a different sport is taken.

6. BEGINNING TAP DANCE (1) Staff

13. MASS GAMES (1) Gillespie

Games for primary and intermediate grades, program planning, and game leadership. For physical education majors or minors, students in elementary education and recreational leaders, or by permission.

114. CAMP CRAFT (2) LaTourrette

An activity course giving experience in fire building, outdoor cooking, and lashing temporary camp equipment. One overnight hike is required.

137, 138. CHOREOGRAPHY (1 or 2, 1 or 2) Simpson

Experimentation in dance composition. Prereq., permission.

PROFESSIONAL COURSES FOR THE MAJOR OR MINOR

Refer to curricula in Health Education, Physical Education, and Recreation in the Physical Education and Athletics section of the catalog.

MEN

61. INTRODUCTION TO PHYSICAL EDUCATION (1) Schleicher, staff

Lectures, discussion, and visual aids pertaining to the scope and content of professional physical education. Proficiency tests in a selected group of physical skills.

128. ATHLETIC TRAINING (2) Hart

Theory and practice of the treatment and prevention of athletic injuries. Prereq., Zool. 133, 134.

139. ATHLETIC OFFICIATING (2) Rhoads

Rules, mechanics, and procedures for the officiating of football and basketball. State certification upon successful completion.

165, 166. PROGRAM SKILLS (2, 2) Rhoads, staff

165, Theory and practice of soccer, speedball, tumbling, stunts and apparatus, touch football, swimming proficiency tests, and officiating practice;

166, Secondary school games, marching and conditioning exercises, volleyball, tennis, softball, swimming, gymnastics, and officiating practice.

168. FOOTBALL SKILLS (1) Hess, staff

Prereq. to 268, Athletic Coaching. For those without football playing experience.

181. ADMINISTRATION OF INTRAMURAL ACTIVITIES (2) Rhoads

Methods of organizing and administering a program of intramural sports for all age levels.

221. PROGRAM SKILLS (2) O'Neal, staff

Elementary school games, rhythmic, archery, handball, squash, racquets, table tennis, bowling, horseshoes, badminton. Prereq., 61; 165 or 166.

222. PROGRAM SKILLS (2) O'Neal, staff
Wrestling, golf, methods in aquatics, fencing, outdoor education, demonstrations and public relations. Prereq., 61; 165 or 166.

267. ATHLETIC COACHING (2 to 4) Snyder, Wren
Basketball and baseball. Theory and practice. Prereq., junior or senior rank.

268. ATHLETIC COACHING (2 to 4) Hess, Huntsman
Football and track. Prereq., junior or senior rank.

MEN - WOMEN

102. PERSONAL AND COMMUNITY HEALTH (3) Phillips, Trepp
Hygienic practices and an appreciation of the means whereby the health of the individual and of the group may be maintained.

127. FIRST AID (2) LaTourrette
Principles and practices of American Red Cross First Aid. The Standard Certificate is granted if requirements are met.

129. INSTRUCTORS FIRST AID (2) LaTourrette
As prescribed and certified by the American Red Cross. Prereq., current First Aid Certificate.

133. ANATOMY AND KINESIOLOGY (4) Harclerode, Trepp
(See Zool. 133.)

134. HUMAN PHYSIOLOGY (3) Harclerode
(See Zool. 134.)

135. PROGRAM TECHNIQUES (1) Miller, Trepp, staff
Experiences in the organization, teaching, and management of health education, physical education, and recreation classes. Students are supervised by staff members.

150. RECREATION (3) LaTourrette
A review of the theory of play, recreation, and group work. Students organize parties and square dances and plan programs for community and institutional groups. Handicraft is included.

153. NATURE AND FUNCTION OF PLAY (2) Rhoads
The historical background, theory, need, and administration of play, emphasizing play programs for schools, recreation centers, camps, and clubs.

233. THEORY OF ADAPTED ACTIVITIES (2) Miller, Trepp
The organization of programs adapted to the needs of physically handicapped individuals. Prereq., Zool. 133.

269. TEACHING OF HEALTH (3) Trepp
Instruction, principles, and curricula used in presenting health information to pupils in the elementary and secondary schools. Prereq., 102.

270. TEACHING OF PHYSICAL EDUCATION (1) Jacoby
Objectives, organization, and program suggestions for elementary school.

304. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION (3) Mason, Miller
Physical education systems and their influences from the time of the Greeks; principles underlying physical education in the modern program of education. Prereq., Zool. 133, 134 or equivalent.

306. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION (3) Mason, Miller

Methods of organizing and administering health and physical education, recreation, and athletics in schools and colleges. Prereq., junior or senior rank.

309. TESTS AND MEASUREMENTS (3) Mason, Miller

Methods of evaluation in health education, physical education, and athletics; practice in handling testing data by elementary statistical methods. Prereq., 10 hrs. senior or graduate rank.

349. COMMUNITY RECREATION (3) Nessley, O'Neal

History of the play movement, programs and program building, administration of playgrounds, community centers, and recreational activities. Prereq., 10 hrs., senior or graduate rank.

352. PHYSICAL DIAGNOSIS (3) Health Center Staff

Deficiencies and defects characteristic of children that handicap normal physical, mental, and social development and the techniques in conducting health examinations and clinical service. Prereq., 15 hrs., senior or graduate rank.

353. CLINICAL OBSERVATION AND PRACTICE IN PHYSICAL MEDICINE AND REHABILITATION (4) V.A. Hospital Staff

A concentrated summer school field course at Veterans Administration Hospital, Chillicothe, Ohio. Instruction by hospital corrective therapy staff. Open to senior majors or graduate students in physical education. Prereq., Zool. 133, 134 or equivalent.

395. SCHOOL HEALTH PROBLEMS (3) Trepp

Principles, problems, organization, and administration of school health programs including school and community relationships. Prereq., 10 hrs., senior or graduate rank.

396. PROBLEMS OF INTERSCHOOL ATHLETICS (3) Rhoads, Widdoes

Problems pertaining to interschool athletic competition at all age levels. Prereq., 10 hrs., senior or graduate rank.

400. GUIDED INDEPENDENT STUDY (1) Mason, Miller

Guided independent study of a selected problem in physical education with a written report based on the research. Maximum credit in course, 2 hrs.

401. PROBLEMS IN HEALTH EDUCATION AND PHYSICAL EDUCATION (3) Mason

An investigation of selected problems in health education and physical education; research reading, discussion, analysis, written reports, examinations.

410. THE CURRICULUM IN PHYSICAL EDUCATION (3) Mason, Miller

An analysis of the criteria and procedures for curriculum construction in physical education; a critical evaluation of courses of study; the development of written guides for programs in elementary and secondary schools, and colleges and universities.

491. SEMINAR IN PHYSICAL EDUCATION AND ATHLETICS (3) Mason, Miller, Nessley

Research and investigation in health education, physical education, recreation, or athletics. Topics and problems suitable for thesis writing, methods of research, writing practice, and critical analysis of outlines for research study.

492. FOUNDATIONS OF HEALTH EDUCATION AND PHYSICAL EDUCATION (3) Miller, staff

A summation of the principles from biology, psychology, and sociology underlying the programming, instruction, and administration of health education and physical education.

495. THESIS (1 to 6) Staff

Prereq., permission.

Any of the following courses may be elected in meeting the requirements for the graduate major in physical education:

Zool. 305, Principles of Physiology; Psych. 336, Social; Psych. 437, 438, Behavior Disorders; Ed. 381, Educational Statistics; Ed. 382, Advanced Educational Statistics.

WOMEN

121, 122. PROGRAM SKILLS (2, 2) Gillespie, LaTourrette

Theory and practice of individual sports, folk dancing, gymnastics, tumbling, and stunts.

139. ATHLETIC OFFICIATING (1) LaTourrette

Theory and practice of officiating field hockey, soccer, and basketball.

140. ATHLETIC OFFICIATING (1) LaTourrette

Theory and practice of officiating volleyball, softball, and track.

142. CAMP LEADERSHIP (2) LaTourrette

The responsibilities of counselors and methods of program planning. Practical leadership experiences.

272. TEACHING METHODS (2) LaTourrette, Miller

Field hockey, soccer, and basketball. Prereq., experience in the sports.

273. TEACHING METHODS (2) LaTourrette

Volleyball, softball, track, and field activities. Prereq., experience in the sports.

274. TEACHING OF RHYTHMIC ACTIVITIES (1) Staff

Folk dancing. Prereq., 15 or 122.

275. TEACHING OF RHYTHMIC ACTIVITIES (1) Staff

Ballroom and modern dancing. Prereq., 8.

PHYSICS

Professors Breitenberger, Edwards, Randall (chairman)
Associate Professors Munir, Pierce, Sanford, Stumpf
Assistant Professors Barry, Chen, Dilley, Finlay,
Koshel, Shipman, Vittitoe

The requirement for the A.B. degree with a major in physics is a minimum of 24 semester hours including 5, 6, 115, at least 6 hours in physics courses numbered above 300, and Math. 102. This curriculum is recommended for secondary school science teachers.

The requirement for the B.S. degree with a major in physics is a minimum of 36 semester hours. This must include 201-202, 219-220, and 12 hours of courses above 300 of which at least 4 hours are laboratory courses.

Students in this curriculum are eligible for membership in the Ohio University Student Chapter of the American Institute of Physics, and may become eligible for election to Sigma Pi Sigma.

Students preparing to become physicists in industrial, atomic energy, space science, or government laboratories, or students who plan to enter graduate study in physics, should register for additional advanced laboratory courses while completing the B. S. degree.

Students who wish to enter graduate study in physics should acquire a reading knowledge of German, and French or Russian. Prospective graduate students are urged to plan their program as early as possible. Details are given in the Graduate College Bulletin.

5. 6. INTRODUCTION TO PHYSICS (4, 4) Edwards, Shipman

Fundamentals of mechanics, electricity, magnetism, heat, light, sound, and atomic structure. For pre-professional students. 3 lec., 2 lab. (Yearly.)

113. GENERAL PHYSICS (4) Staff

For students of chemistry, engineering, mathematics, and physics. Mechanics, fluids, heat, and sound. Lectures with demonstrations, recitations, and lab. 3 lec., 2 lab. Prereq., Math. 101 or with 101. (Each sem.)

114. GENERAL PHYSICS (4) Staff

For students of chemistry, engineering, mathematics, and physics. Electricity, magnetism, wave motion, and light. 3 lec., 2 lab. Prereq., 113; Math. 102 or with 102. (Each sem.)

115. GENERAL PHYSICS (3) Staff

Same general description as 113 except no lab. Modern Physics. Required for all physics majors. Prereq., 114, Math. 102 or with Math. 102. (Each sem.)

120. INTERMEDIATE LABORATORY (1) Staff

Experiments in contemporary physics. Prereq., 114, with 115. (2nd sem., yearly.) (For Physics majors only.)

201-202. MECHANICS (3-3) Stumpf

Fundamentals of physical mechanics and wave motion. Prereq., 115, with Math. 215-216. (Yearly.)

219-220. ELECTRICITY AND MAGNETISM (3-3) Dilley

Physical fundamentals of circuits, currents and fields. Prereq., 115, Math. 216 or with 215-216. (Yearly.)

268. TEACHING OF PHYSICAL SCIENCE (2) Pierce

For secondary school teachers. Prereq., 8 hrs. in physics or chemistry. (2nd sem., 1964-65.)

305. LIGHT (3) Finlay

Physical nature of light; geometric and physical optics. Prereq., 220. (2nd sem., 1964-65.)

308. X-RAYS (2) Edwards

Physics of X-rays and crystallography; applications in chemistry, medicine, and physics. Prereq., 115. (1st sem., 1965-66.)

310. THERMODYNAMICS (3) Stumpf

Fundamentals of heat, thermodynamics, kinetic theory and statistical mechanics. Prereq., 115, Math. 216, or with 216. (1st sem., yearly.)

314. MODERN SPECTROSCOPY (3) Randall
Atomic and molecular spectra at all frequencies and their interactions with matter; quantitative analysis. Prereq., 115. (1st sem., 1964-65.)

326. ACOUSTICS (2) Stumpf
Fundamentals of acoustic sources and wave propagation. Prereq., 202, 220. (2nd sem., 1965-66.)

327 through 332. ADVANCED PHYSICS LABORATORIES (2 each) Staff
Fundamental physical principles and interpretation of data are emphasized through basic and advanced techniques and modern instrumentation in six fields of physics for the chemist, engineer, and physicist. Prereq., for each, 115.
327. OPTICS. (1st sem., 1965-66.)
328. SPECTROSCOPY. (2nd sem., yearly.)
329. ELECTRICAL MEASUREMENTS. (1st sem., yearly.)
330. ELECTRONIC CIRCUITS. (2nd sem., yearly.)
331. X-RAYS. (1st sem., yearly.)
332. NUCLEAR PHYSICS. (2nd sem., yearly.)

342. NEUTRON PHYSICS LABORATORY (3) Sanford
Properties of the neutron and studies of the uranium reactor. Prereq., 220. (1st sem., yearly.)

349-350. ATOMIC AND NUCLEAR PHYSICS (3-3) Edwards
Fundamental physical laws of atomic and nuclear structure. Prereq., 115, Math. 216. (Yearly.)

352. INTRODUCTION TO QUANTUM MECHANICS (3) Vittitoe
Introduction to basic physical laws in which energy and momentum are quantized. Prereq., 202. (2nd sem., yearly.)

360. SOLID STATE PHYSICS (3) Sanford
Fundamental physical properties of the solid state of matter. Prereq., 314 or 349. (2nd sem., yearly.)

361. SPECIAL PROBLEMS (1 to 3) Staff
Supervised research problems of limited scope in experimental and theoretical physics. Maximum credit in course, 8 hrs. Prereq., 15 hrs. (Yearly.)

365. NUCLEAR REACTOR THEORY (3) Sanford
Nuclear physics and neutron theory with applications to reactor design and operation. Prereq., 115, Math. 215. (1st sem., yearly.)

405-406. CLASSICAL THEORETICAL PHYSICS (3-3) Breitenberger
Selected topics to provide insight and basic skills in problems of classical and statistical mechanics, and electromagnetic theory. Prereq., 202, 220. (Yearly.)

407-408. THEORETICAL MODERN PHYSICS (3-3) Vittitoe
Selected topics to provide insight and basic skills in problems of the frontiers of physics. Prereq., 202, 220, 314 or 349. (Yearly.)

410. HIGH ENERGY PARTICLES (3) Munir
Theoretical and experimental methods of the problems of fundamental particles of physics at high energies. Prereq., 407. (2nd sem., 1964-65.)

415. METHODS OF THEORETICAL PHYSICS (3) Breitenberger
Basic solutions of problems in physical theory. Prereq., Math. 216. (1st sem., yearly.)

419-420. QUANTUM MECHANICS (3-3) Koschel
 Matrix and wave mechanics methods for problems in the structure of matter. Prereq., 352, 406, 408. (Yearly.)

425. THEORETICAL MECHANICS (3) Chen
 Advanced treatment of kinematics, dynamics, energy, and momentum. Prereq., 406. (1st sem., yearly.)

426. ELECTROMAGNETIC THEORY (3) Barry
 Advanced treatment of electric and magnetic fields. Prereq., 406. (2nd sem., yearly.)

449-450. NUCLEAR THEORY (3-3) Finlay
 Fundamental facts and theories of the structure of nuclei and their interactions. Prereq., 420. (Yearly.)

460. THEORY OF THE SOLID STATE (3) Sanford
 Selected topics of current interest in solid state physics. Prereq., 352, 360, 408.

461. STATISTICAL MECHANICS AND THERMODYNAMICS (3) Chen
 Application of general theories to selected topics. Prereq., 419. (2nd sem., yearly.)

463. ADVANCED SOLID STATE THEORY (3) Barry
 Advanced topics in the theory of solid state. Prereq., 460.

464. PHYSICS OF THE PLASMA STATE (3) Dilley
 Fully ionized gases, magnetohydrodynamics, fusion. Prereq., 420, 461.

465. ADVANCED QUANTUM MECHANICS (3) Chen
 Interactions between radiation and matter. Prereq., 420. (1st sem., 1965-66.)

470. QUANTUM FIELD THEORY (3) Dilley
 Electromagnetic, nuclear, and gravitational fields from quantum viewpoint. Prereq., 465. (2nd sem., 1965-66.)

475. ADVANCED NUCLEAR THEORY (3) Koschel
 Theories of structure of nuclei and their interactions. Prereq., 420, 450. (2nd sem., 1964-65.)

481. RESEARCH (As recommended by dept.) Staff
 Prereq., 24 hrs. (Yearly.)

489, 490. COLLOQUIUM (0, 0) Breitenberger
 Selected topics. Required of all physics graduate students each semester in residence. Prereq., 15 hrs. (Yearly.)

491, 492. SEMINAR (1, 1) Staff
 Intensive study of current research by special groups. Prereq., 15 hrs. (Yearly.)

495. THESIS OR DISSERTATION (As recommended by dept.) Staff
 Prereq., permission.

PSYCHOLOGY

Professors A. Anderson, G. Klare, Paulsen,
 W. Snyder (chairman), Uhrbrock
 Associate Professors Bradshaw, Games, Pullen, Russell
 Assistant Professors Bruning, Kintz, P. Koons, Thompson
 Instructors Bowling, Crawford, Semans

The major requirement for the A. B. degree is 26 semester hours including 1 or 101, 2, 121, 142, 226, 294 and 9 hours in courses numbered 300 to 399. Total hours in psychology courses may not exceed 34. Undergraduate majors, especially those planning to pursue graduate work in psychology, are advised to prepare themselves in allied fields appropriate to their interests. Especially recommended are language, preferably French, German or Russian, biological science, mathematics, philosophy, and the social sciences, including economics.

The facilities of the University Testing and Counseling Center and of the Psychological Service Center provide opportunities for the training of graduate students in psychology, as well as services to University students, staff, and faculty.

1. **GENERAL PSYCHOLOGY** (3) Staff
 Not open to juniors and seniors. (Each sem.)

2. **PRINCIPLES OF PSYCHOLOGY** (3) Staff
 An extension of 1, with emphasis on learning, motivation, sensory processes, etc. Prereq., 1 or 101. Not open to juniors and seniors. (Each sem.)

9. **IMPROVEMENT OF READING AND STUDY METHODS** (1) Staff
 Credit and points not counted toward a degree. (Each sem.)

71. **EDUCATIONAL PSYCHOLOGY** (3) Staff
 Psychological facts and principles of concern to those planning to teach. Prereq., 1 or 101. Not open to juniors and seniors. (Each sem.)

101. **GENERAL PSYCHOLOGY** (3) Staff
 An intensive course not open to freshmen and to students having had 1. (Each sem.)

121. **ELEMENTARY STATISTICS FOR THE BEHAVIORAL SCIENCES** (3) Games, staff
 Measures of central tendency, variability, correlation, and the simplest tests of hypotheses. Prereq., Math. 3 with minimum grade of C, or 9, or 15. (Each sem.)

131. **PSYCHOLOGY OF ADJUSTMENT** (3) Russell
 The dynamics, development, and problems of human adjustment. Prereq., 1 or 101. (1st sem., yearly.) No credit given if 332 or 333 have been taken.

142. **INTRODUCTION TO PSYCHOLOGICAL TESTS** (3) Games, Klare, Russell
 The nature and purpose of psychological measurements. Introduction to tests of intelligence, achievement, personality, and interest. 2 lec., 2 lab. Prereq., 1 or 101, 121. (2nd sem., yearly.)

162. **PSYCHOLOGY OF ADVERTISING AND SELLING** (3) Anderson
 Applications of psychology of attention, human motives, learning and remembering, imagery, and individual differences to advertising and selling. Prereq., 1 or 101. (Each sem.)

173. CHILD PSYCHOLOGY (3) Bradshaw
Behavior in infancy and childhood. Prereq., 1 or 101. (Each sem.)

174. PSYCHOLOGY OF ADOLESCENCE (2) Staff
Prereq., 1 or 101. (Each sem.)

215. PSYCHOLOGY OF INDIVIDUAL DIFFERENCES (3) Staff
The extent and the nature of individual differences, and the influence of heredity, environment, race, nationality, age, and sex. Prereq., 3 hrs. (1st sem., yearly.)

226. EXPERIMENTAL PSYCHOLOGY (3) Kintz, staff
Training in the scientific methods and techniques of modern experimental psychology with individual reports of experiments. 2 lec., 4 lab. Prereq., 1 or 101, 121. (Each sem.)

228. LABORATORY PROBLEMS IN GENERAL AND APPLIED PSYCHOLOGY (3) Bruning, Kintz, staff
Extension and application of Experimental Psychology. The student may be required to design and carry out a supervised project. 1 lec., 2 lab. Prereq., 226. (2nd sem., yearly.)

261. INDUSTRIAL PSYCHOLOGY (3) Klare, Uhrbrock, staff
The application of psychology to business and industry. Designed for business administration, engineering and technology, and psychology majors interested in entering industry as management trainees. Employee selection; human engineering; attitudes; psychological aspects of labor relations. Prereq., 1 or 101. (1st sem., yearly.)

294. SENIOR SEMINAR (2) Staff
Discussion of contemporary problems and systematic issues. Prereq., senior standing in psychology. Maximum credit in course, 2 hours. (2nd sem., yearly.)

300. HONORS IN PSYCHOLOGY (3 to 6) Staff
Prereq., senior standing in psychology, and grade point average of 3.0 in all courses.

301. EXPERIMENTAL SENSORY PSYCHOLOGY (3) Staff
A systematic study of sensory processes, including vision, audition, gustation, olfaction, and somesthesia. 2 lec., 3 lab. Prereq., 226. (1st sem., yearly.)

303. LEARNING (3) Staff
Methods and basic data in the areas of conditioning, discrimination learning, problem solving, habit formation, and retention. 2 lec., 3 lab. Prereq., 226. (1st sem., yearly.)

306. PSYCHOLOGY OF COMMUNICATION (3) Klare
A psychological approach to the process of communication, with applications to problems in the social sciences. Prereq., 12 hrs. (2nd sem., yearly.)

308. PSYCHOLOGY OF SPEECH (3) Brandes
See Speech.

310. MOTIVATION AND EMOTIONS (3) Staff
The dynamics of animal and human behavior; a study of drives, desires, incentives; a study of emotion in relation to motives. Prereq., 9 hrs. (2nd sem., yearly.)

312. PHYSIOLOGICAL PSYCHOLOGY (3) Thompson
A study of the relationship between integrated behavior and the bodily processes in the intact organism. Prereq., 226., Zool. 3, 4. (2nd sem., yearly.)

314. COMPARATIVE AND GENETIC PSYCHOLOGY (3) Thompson
Behavior of lower and higher organisms leading up to man. 2 lec., 3 lab. Prereq., 226. (1st sem., yearly.)

332. ABNORMAL PSYCHOLOGY (3) P. Koons, staff
Man's mental deviations from the normal; theory, application, and limitations of psychoanalysis; methods of studying abnormal mental processes, especially psychoses. Clinics at hospitals. 2 lec., 1 lab. Prereq., 9 hrs., or 6 hrs., and 6 hrs. zoology. (2nd sem., yearly.)

333. PSYCHOLOGY OF PERSONALITY (3) P. Koons, Russell
The origins, development, and organization of personality. Prereq., 9 hrs. (1st sem., yearly.)

336. SOCIAL PSYCHOLOGY (3) Bruning, Paulsen
The behavior of man as influenced by group membership, with emphasis on the individual's interaction as a basis of change of motives, attitudes, and personality. Prereq., 9 hrs. (2nd sem., yearly.)

351. INTRODUCTION TO CLINICAL AND COUNSELING PSYCHOLOGY (3) Staff
Diagnostic and remedial procedures and resources; professional problems, duties, and skills, and interprofessional relationships. Prereq., 332 or 333 or 336, or an A or B grade in 1 or 101. (1st sem.)

361. SEMINAR IN PSYCHOLOGICAL PROBLEMS IN INDUSTRY (3) Klare, Uhrbrook, staff
Problems of selection, placement, motivation, development, and evaluation of employees, with emphasis on job analysis, interviewing, testing, rating, and attitude evaluation as related to worker satisfaction, fatigue, and productivity. Prereq., 1 or 101, course in statistics. (1st sem., yearly.)

373. DEVELOPMENTAL PSYCHOLOGY (3) Staff
An advanced review of fundamental principles and research covering the development of human behavior. Prereq., 173 or 174. (1st sem., yearly.)

375. PSYCHOLOGY OF EXCEPTIONAL CHILDREN (3) Staff
The growth and development of nontypical children. Prereq., 9 hrs. (Each sem.)

376. PROGRAMMED LEARNING AND TEACHING MACHINES (3) Klare, staff
Use of programs and machines; principles and procedures in preparing programs; writing of objectives and frames for a trial program. Prereq., a course in learning; sr. or grad. standing. (1st sem., yearly.)

390. MINOR PROBLEMS IN PSYCHOLOGY (1 to 3) Staff
Training in the scientific study of some problem of special interest to the student. Independent work emphasized. Maximum credit in course, 6 hrs. Prereq., 9 hrs. (Each sem.)

403. LEARNING THEORY (3) Anderson
Lectures and readings covering theoretical works in the field of learning. Prereq., 303. (2nd sem., yearly.)

411. PERCEPTION (3) Staff
The psychological principles of perception involving the study of impersonal (time, space, motion) and personal (social) phenomena. Prereq., 15 hrs. (2nd sem., alternate years.)

417. HISTORY OF PSYCHOLOGY (3) Staff
Prereq., 9 hrs. (1st sem., yearly.)

418. SYSTEMS OF PSYCHOLOGY (3) Staff
A critical analysis and comparison of modern and contemporary psychological theory. Prereq., 15 hrs. (2nd. sem., yearly.)

421. INTERMEDIATE STATISTICS FOR THE BEHAVIORAL SCIENCES (4) Games
The process of statistical inference, and the most commonly used tests of hypotheses involving the normal curve and the *t*, chi-square, and *F* distributions. Correlation and linear regression. 4 lec., 1 lab. Prereq., 121 or equiv. (1st sem., yearly.)

422. DESIGN AND ANALYSIS OF EXPERIMENTS (3) Games
Analysis of variance techniques and considerations in the design and analysis of experiments; trend analysis; covariance; multiple comparisons. 3 lec., 1 lab. Prereq., 421. (2nd sem., alternate years.)

424. ADVANCED PRINCIPLES OF TESTS AND MEASUREMENTS (3) Games
Test theory, item analysis, reliability analysis, cross validation, and an introduction to factor analysis. Statistical considerations of constructing, using, and interpreting tests. Prereq., Psych. 421, Ed. 382. (2nd sem., alternate years.)

426. ADVANCED EXPERIMENTAL PSYCHOLOGY (4) Staff
Study of experimental design and techniques. Students will carry out individual experiments. Prereq., 421. (2nd sem., yearly.)

433. THEORIES OF PERSONALITY (3) Staff
Prereq., 333, 336. (2nd sem., yearly.)

436. ADVANCED SOCIAL PSYCHOLOGY (3) Staff
A summary of the main theoretical and substantive trends in contemporary social psychology, with emphasis upon the role of small group theory and research. Prereq., 336. (2nd sem., yearly.)

437. BEHAVIOR DISORDERS I (3) P. Koons, staff
An empirical approach to the dynamics of behavior disorders. The integration and application of motivational, emotional, perceptual, and learning principles to maladjustments, including psychoneurosis. Prereq., 15 hrs. including 332 or equiv. (1st sem., yearly.)

438. BEHAVIOR DISORDERS II (3) Staff
An intensive approach, stressing current literature, to the problems of psychopathology, including organic, psychotic, psychoneurotic, and personality disorders, and mental deficiency. Prereq., 437. (2nd sem., yearly.)

441. BEHAVIORAL MEASUREMENT (2) Games
Theory of testing and measurement; basic criteria including objectivity, reliability, validity. Methods of test construction and validation, including questionnaire construction. An introduction to factor analysis. Prereq., 421 or Educ. 381 or equiv.; required of graduates who have not had 142. (2nd sem., yearly.)

442. INDIVIDUAL INTELLIGENCE TESTING (3) Pullen

The theory, methods, practice, and results of intelligence tests. 2 lec., 1 lab. Prereq., 142 or 441. (Each sem. and summer.)

443. ASSESSMENT I — INTRODUCTION (3) P. Koons, Pullen

An intensive survey of clinical methods: interviewing, report writing, interprofessional relationships, interpretation of commonly used individual and group assessment methods, and a general introduction to the theory of projective testing. Prereq., 442. (2nd sem., yearly.)

444. ASSESSMENT II — ADVANCED INDIVIDUAL TESTING (3) P. Koons

The theory, methods, and introduction to the interpretation of projective testing. Prereq., 443 and 451 or 437. (1st sem., yearly.)

445. ASSESSMENT III — INTEGRATION (3) P. Koons

Advanced interpretation of projective and other diagnostic tests and the integration of test findings into a dynamic conceptualization of the individual. Prereq., 444. (2nd sem., yearly.)

446. PRACTICUM IN PSYCHOLOGICAL ASSESSMENT (3 to 6) Koons, staff

Experience with psychological measuring devices, especially projective techniques. Prereq., 443 (or concurrently). (Each sem.)

451. PERSONNEL AND VOCATIONAL COUNSELING I (3) Klare, Russell

Techniques useful in considering personnel and vocational problems in industrial, commercial, and school work. Prereq., 9 hrs., including 142 or 441. (1st sem., yearly.)

452. PERSONNEL AND VOCATIONAL COUNSELING II (3) Paulsen, Russell

Consideration of the dynamics of vocational choice and adjustment, theory of interests, occupational information, job classification, uses of community resources, etc., as applied to counseling and personnel work. Prereq., 451 and 332 or 437. (2nd sem., yearly.)

453. COUNSELING AND PSYCHOTHERAPY I (3) Pullen, Snyder, staff

Analysis of theory and practice in counseling and psychotherapy Prereq., 437. (1st sem., yearly.)

454. COUNSELING AND PSYCHOTHERAPY II (3) Snyder, staff

Theory and practice in counseling and psychotherapy with personal adjustment cases. Prereq., 443, 453. (2nd sem., yearly.)

455. PRACTICUM IN COUNSELING AND PSYCHOTHERAPY (3) Pullen, Snyder

Supervised experience in counseling, and psychotherapy. A pre- or co-requisite to the clinical internship; may be repeated for maximum credit of 6 hrs. Prereq., 454 or concurrently. (Each sem.)

456. PRACTICUM IN PERSONNEL AND VOCATIONAL COUNSELING (3) Russell

Experience in personnel and vocational counseling. The work will include the handling of counseling cases. Prereq., 451 and 332 or 437. Ed. 362 recommended. (2nd sem., yearly.)

491. RESEARCH IN PSYCHOLOGY (1 to 6) Staff

Prereq., 15 hrs., permission.

494. ADVANCED SEMINAR IN PSYCHOLOGY (1 or 2) Staff
 Maximum credit in course, 4 hrs. Prereq., 15 hrs., permission. (2nd sem., yearly.)

495. THESIS OR DISSERTATION (As recommended by dept.) Staff
 Prereq., permission.

RADIO-TELEVISION Associate Professor Jukes
 Assistant Professors Greer, Holmes, Glick, Spalding
 Instructor Marshall
 Lecturer Rety

79. INTRODUCTION TO RADIO-TELEVISION (2) Spalding, Wagner
 The development of radio and television. Attention given to American and foreign systems, mechanics of broadcasting, FCC rules, networks, advertising, and public service programs.

90. STATION ORGANIZATION AND PROCEDURES (2) Glick
 2 lec. Prereq., 79.

105. RADIO-TELEVISION BROADCASTING MECHANICS (2) Rety
 Introduction to the technical aspects of radio and television broadcasting.

147. EQUIPMENT CONTROL AND OPERATIONAL PROCEDURES (2) Rety
 1 lec., 2 lab. Prereq., 105.

180. RADIO SPEECH (2) Glick, Greer
 Microphone technique, pronunciation problems. Practice in reading various types of materials, 1 lec., 2 lab. Prereq., Speech 2 or 7, 34 or with 34.

225. RADIO PRODUCTION-DIRECTION (3) Glick
 Radio production techniques, sources of radio material, editing and preparation of radio scripts and use of sound effects. 2 lec., 2 lab. Prereq., 180.

247. RADIO WORKSHOP (2) Glick, Greer
 Practical experience in the production and broadcasting of radio programs. Prereq., 225 or permission.

280. RADIO-TELEVISION NEWS WRITING AND EDITING (2) Wagner
 See JOURNALISM.

285. RADIO-TELEVISION NEWS PRACTICE (1 or 2) Wagner
 See JOURNALISM.

301. BROADCASTING AND THE PUBLIC (3) Spalding
 The relationship between the broadcaster, government regulatory agencies, and the public. Bases for critical evaluation of the educational, cultural, and economic significance of broadcasting. Prereq., junior standing.

302. PRINCIPLES OF TELEVISION PRODUCTION (3) Marshall
 Production aspects of television and general principles of equipment operation and crew responsibilities. Laboratory experience. 2 lec., 2 lab. Prereq., 180, 301 or permission.

303. TELEVISION NEWS PRODUCTION (2) Wagner
See JOURNALISM.

309. RADIO-TELEVISION ADVERTISING AND MANAGEMENT (3) Turnbull
See JOURNALISM.

316. DOCUMENTARY AND CONTINUITY WRITING (3) Staff
Writing of scripts including continuity, straight and dramatized commercials, original and short sketches, and stories. 3 lec. Prereq., 301, 225 or 302 or permission.

317. WRITING FOR RADIO AND TELEVISION (3) Staff
Writing and critique of the form, structure, and presentation of both dramatic and non-dramatic formats. 3 lec. Prereq., 301, 225 or 302 or permission.

326. ADVANCED RADIO PRODUCTION-DIRECTION (3) Greer
2 lec., 2 lab. Prereq., 225, 301, or permission.

331. TELEVISION PRODUCTION-DIRECTION (3) Holmes, Marshall
Analysis and application of the theory and techniques of directing for television with special attention to the problems involved in the basic formats. 2 lec., 2 lab. Prereq., 302 or permission.

332. ADVANCED TELEVISION PRODUCTION-DIRECTION (3) Holmes
Rehearsal, performance, and technical work connected with the production of the dramatic script. 2 lec., 4 lab. Prereq., 331.

348. TELEVISION DESIGN, LIGHTING, AND GRAPHICS (3) Jukes
Theory and practice of design, lighting, and graphics as related to television production. Individual projects involving research, design, and construction. Prereq., 302.

351. RECORDING FOR TELEVISION (3) J. Anderson, Jukes
Film and video recording in television. The development of standards and techniques for editing and make-up of film and video recordings. Critical analysis of the potential of these media in television. 2 lec., 2 lab. Prereq., 302 or permission.

360. INSTRUCTIONAL METHODS IN EDUCATIONAL
RADIO-TELEVISION (3) Spalding
Practical applications of television in the public school classroom. Utilization of television programs as an adjunct to instruction. Preparation of instructional units for telecasting. 2 lec., 2 lab. Prereq., junior standing, permission.

375. RADIO-TELEVISION PROGRAMMING (3) Glick
Study of station operation with particular reference to program planning, series building, costs, and staff. 3 lec. Prereq., 301, senior standing.

381. RESEARCH (2-4) Staff
Maximum credit, 6 hrs. Not open to graduate students. Prereq., senior standing and permission.

385. RADIO AND TELEVISION IN EDUCATION (3) Holmes
Study of the problems in broadcasting and televising high school and college courses. Practical applications in setting up programs. Prereq., 12 hrs. Radio-Television or 12 hrs. Education, permission.

483. SEMINAR—HISTORY OF BROADCASTING (3) Staff

484. SEMINAR—PROGRAMMING AND CRITICISM (3) Spalding

494. RESEARCH

(1 to 12) Staff

Individual, guided research on special problems. Projects must be approved prior to registration. Prereq., 8 hrs., permission.

495. THESIS OR DISSERTATION

(As recommended by dept.) Staff

Prereq., permission.

RESERVE OFFICERS TRAINING CORPS

AIR SCIENCE

Professor of Air Science: Lieutenant Colonel Smith

Assistant Professors: Major Tyner; Captains Girton,
Walden

Instructors and Administrative Assistants:

Technical Sergeants Brown, Gerd; Staff Sergeant Palmer

11, 12. AIR SCIENCE — BASIC COURSE (Freshman)

(1, 2) Staff

Basic Air Science 11—A survey of the constituent elements of aerospace power and an evaluation of the professional officer in the United States Air Force. (One hour per week.) Basic military and leadership training is offered during a one hour per week laboratory period. In addition to the above, students must take at least one 30 classroom hour university course in Humanities, Mathematics, Biological Sciences, Physical Sciences, or Social Sciences to meet the required number of contact hours for AFROTC work. Courses selected must be approved by the PAS. One day field trip required. (1st sem., academic year 1964-65 only.)

Basic Air Science 12—An introduction to the organization and operation of the military arm of the Federal Government. (One hour per week.) Basic military and leadership training is offered during a one hour per week laboratory period. Prereq., AS 11 or permission. (2nd sem., academic year 1964-65 only.)

11, 12 OFFICER EDUCATION—BASIC COURSE (Freshman) (1, 2) Staff

(To replace AS 11 and 12 in academic year 1965-66)

Officer Education 11—An introductory course exploring the causes of present world conflicts as they affect the security of the United States, to include an analysis of democracy and communism and the United States power position in world affairs. (One hour per week.) Basic military and leadership training is offered during a one hour per week laboratory period. One day field trip is required. (1st sem., academic year 1965-66.)

Officer Education 12—A study of the armed forces as an instrument of national policy, missions and functions of the Air Force, and the student's relation to United States world commitments. (One hour per week.) Basic military and leadership training is offered during a one hour per week laboratory period. (2nd sem., academic year 1965-66.)

101, 102 OFFICER EDUCATION—BASIC COURSE (Sophomore) (1, 2) Staff

Officer Education 101—A comparative study of world military forces to include Free World land and naval forces, Free World air forces. (One hour per week.) Basic military and leadership training is offered during a one hour per week laboratory period. (1st sem. only.) Prereq., AS 11 and 12 or permission. (Although the title for this course is Officer Education, it is the second year of the basic AFROTC curriculum.) (See change in freshman course for prereq. for academic year 1965-66.)

Officer Education 102—A study of the communist military systems, a comparative analysis of the Free World forces and those of the Communist Block, trends in the development and employment of military power. (One hour per week.) Basic military and leadership training is offered during a one hour per week laboratory period. Prereq., OE 101 or permission. (2nd sem. only.)

221, 222. GROWTH AND DEVELOPMENT OF AEROSPACE POWER

(Advanced Course Junior) (3, 3) Staff

Officer Education 221—A survey course about the nature of war; development of air power in the United States; mission and organization of the Defense Department; Air Force concepts, doctrine and employment. Three class hours per week, one hour of supervised research, and one hour of leadership training in a leadership laboratory. Prereq., permission. (1st sem. only.)

Officer Education 222—A survey course about astronautics and space operations; the future development of aerospace power. Includes the United States space programs, vehicles, systems and problems in space exploration. Three class hours per week, one hour of supervised research, and one hour of leadership training in a leadership laboratory. Prereq., permission. (2nd sem. only.)

AFROTC SUMMER TRAINING

(2) Air Base Staff

A four-week training program conducted on an Air Force Base between the junior and senior years, consisting primarily of orientation to air base facilities, with some classroom work to make practical application of courses covered in the freshman, sophomore, and junior years; also, to provide opportunity for life under military conditions. Instruction includes physical training, familiarization flying, USAF base activity and equipment, individual weapons, drill, field exercise, air base problems. Prereq., 221, 222.

251, 252. ADVANCED COURSE (Senior)

(1, 1) Staff

Advanced Air Science 251—*Non-pilot candidates only.* Cadet presentations on Air Force major commands. Current developments in military affairs. Leadership training (laboratory). Two hours a week. Prereq., permission. (1st sem., academic year 1964-65 only.)

All Air Science First Semester seniors (1964-65) must schedule Government 216 or an approved alternate course. Pilot candidates must participate in leadership training by arrangement, take Aviation 110 (some will be scheduled for Aviation 111).

Advanced Air Science 252—Preparation for active duty including personal and professional considerations. Leadership training (laboratory). (Geography 360 or approved alternate course must be scheduled. Pilot candidates must also take Aviation 111 if not taken first semester.) Two hours a week. Prereq., permission. (Academic year 1964-65 only.)

251, 252. THE PROFESSIONAL OFFICER (Advanced Course Senior) (3, 3) Staff

Officer Education 251—A study of professionalism, leadership, and management. Includes the meaning of professionalism; professional responsibilities; the military justice system; leadership theory, functions and practices. Three class hours per week, one hour of supervised research, and one hour of leadership laboratory. Prereq., permission. (1st sem., beginning academic year 1965-66.)

Officer Education 252—A study of management principles and functions; problem solving; management tools, practices and controls. Three class hours per week, one hour of supervised research, and one hour of leadership laboratory. Prereq., permission. (2nd sem., beginning academic year 1965-66.)

MILITARY SCIENCE

Professor of Military Science
 Lieutenant Colonel Lucas
 Assistant Professors: Captains Shufelt,
 Mastropasqua, Graham
 Instructors: Sergeants Baker, Castleman,
 Hamlin, Johnson

1. BASIC MILITARY SCIENCE I

(1) Staff

Organization of the Army and ROTC, and leadership laboratory. (Students must also take a 30 class hour course that will count toward graduation in one of the following fields: JOURNALISM, PHOTOGRAPHY, RADIO-TV, SPEECH, DRAMATICS, PSYCHOLOGY, MATHEMATICS, BIOLOGICAL SCIENCE, PHYSICAL SCIENCE, or ENGINEERING. The course selected must be approved by the PMS).

2. BASIC MILITARY SCIENCE I

(2) Staff

Individual weapons and marksmanship training, U.S. Army and National security and leadership laboratory. Prereq., 1 or permission.

101. BASIC MILITARY SCIENCE II

(2) Staff

American Military History and Leadership laboratory. Prereq., 2 or permission.

102. BASIC MILITARY SCIENCE II

(2) Staff

Map and aerial photograph reading, basic tactics, and leadership laboratory. Prereq., 101 or permission.

221. ADVANCED MILITARY SCIENCE III

(1) Staff

Leadership and leadership laboratory. Prereq., 102 or permission.*

222. ADVANCED MILITARY SCIENCE III

(3) Staff

Military teaching principles, branches of the Army, small unit tactics, communications, counter insurgency, and leadership laboratory. Prereq., 221 or permission.

SUMMER ROTC CAMP

A six-week training program to be conducted at an Army post. Summer training will supplement instruction given in Military Science courses 221, 222, 251 and 252 with practical work. Prereq., 221, 222.

251. ADVANCED MILITARY SCIENCE IV

(3) Staff

Military law, logistics, operations, administration and leadership laboratory. Prereq., 222 or permission.

252. ADVANCED MILITARY SCIENCE IV

(1) Staff

Role of the U.S. Army in world affairs, service orientation and leadership laboratory. Prereq., 251 or permission.*

RUSSIAN—See Modern Languages

*Military Science 221 and 252 students are required to take at least a 45 class hour course in one of the following fields: EFFECTIVE COMMUNICATION, SCIENCE COMPREHENSION, GENERAL PSYCHOLOGY or POLITICAL DEVELOPMENT and POLITICAL INSTITUTIONS. Subjects in those fields must be other than those required by the student's academic curriculum in his freshman and sophomore years, and must be approved by the PMS.

SECRETARIAL STUDIES Associate Professor Sponseller (chairman)
Assistant Professors Appel, Richards, Weaver
Instructors Hampton, Miller

15. BEGINNING TYPEWRITING	(2) Hampton, Miller
Development of touch typewriting skill. 5 hours a week. Prereq., not open to those who have had high school typewriting.	
16. INTERMEDIATE TYPEWRITING	(2) Hampton
Further development of skill through application to office problems. 5 hours a week. Prereq., 15 with a grade of C or one year high school typewriting.	
31. BEGINNING SHORTHAND	(3) Hampton, Miller
Theory of Gregg shorthand; introduction to dictation. 5 hours a week. Prereq., 15 or with 15; not open to those who have had high school shorthand.	
32. INTERMEDIATE SHORTHAND	(3) Hampton, Miller
Development of ability to take dictation; introduction to transcription. 5 hours a week. Prereq., 31 with a grade of C or one year high school shorthand; 16 or with 16.	
111. ADVANCED TYPEWRITING	(2) Richards
Problem and production typewriting. 5 hours a week. Prereq., 16 with a grade of C or two years high school typewriting.	
151. DICTATION AND TRANSCRIPTION	(3) Hampton
Increasing dictation rates and developing transcription techniques. 5 hours a week. Prereq., 111, 32 and Eng. 3 with a grade of C in each. Two years high school shorthand may be substituted for 32.	
152. ADVANCED DICTATION AND TRANSCRIPTION	(3) Richards
5 hours a week. Prereq., 151 with a grade of C.	
180. BUSINESS MACHINES	(2) Weaver
5 hours a week.	
181. OFFICE PROCEDURES AND SERVICES	(3) Miller
3 lec.; 2 lab. Prereq., 16, 180.	
220. BUSINESS COMMUNICATIONS	(3) Richards, Sponseller
Written reports and letters for business. Prereq., Eng. 4, junior or senior rank.	
261. TEACHING OF BUSINESS SUBJECTS	(2 or 3) Miller
Principles of business education and procedures in teaching business subjects on the secondary level. Prereq., junior rank, major or minor in Business Education.	
275. SECRETARIAL PRACTICE	(3) Sponseller
Supervised office experience; seminar. 7 hours a week. Prereq., 151, 181.	
330. OFFICE MANAGEMENT	(3) Weaver
(Same as Mgt. 330.) Analysis of information activities and flows in the business enterprise as a system. Includes case problems. Prereq., Mgt. 211, junior or senior rank.	
OTHER COURSES AVAILABLE	
335. COMMERCIAL CURRICULUM CONSTRUCTION	(2)

387. RESEARCH IN BUSINESS TEACHING PROBLEMS	(1 to 8)
391. SEMINAR IN BUSINESS TEACHING PROBLEMS	(2 to 4)
437. ADMINISTRATION IN BUSINESS EDUCATION	(3 to 6)

SOCIOLOGY AND ANTHROPOLOGY Professor Harlan (chairman)
 Assistant Professors Horning, Kwan, Worstell
 Instructors Babics, Webb

The requirements for a major in sociology are: (1) *Specific courses*: 1 or 101, 2 or 102, 110, 151-152, 175, and 375. (2) *Area requirements*: a minimum of 15 hours chosen from at least three of these six areas of specialization: Social Organization (203, 207, 211, 260, 320, 321, 334); Social Psychology and Collective Behavior (203, 229, 321, 325, 336, 345); Social Disorganization (203, 220, 311, 322, 341); Community Structure and Population (203, 204, 209, 211, 315, 318, 334); Pre-professional Social Work (117, 203, 233, 234, 330, 339, 341); and Anthropology (105, 202, 211, 250, 315, 316). (3) *Advanced seminar or research*: 2 hours chosen from 301, 303, 350, or 381.

Majors ordinarily take 1 and 2 in the freshman year (101-102 for sophomores), and 110, 151-152, and 175 in the sophomore year. In fulfilling the College of Arts and Sciences requirement in the natural sciences, majors should register for Zool. 3-4, Math. 3 or 9, and a course in statistics. (See the College of Arts and Sciences section of this Bulletin for additional information concerning preparation for work in criminology, juvenile delinquency, and social work.)

1. INTRODUCTION TO SOCIOLOGY (3) Staff

Introduction to the scientific study of society. Develops basic concepts for an understanding of culture, personality, group interaction, community organization, population, and social institutions. Not open to juniors or seniors. (Each sem.)

2. SOCIAL PROBLEMS (3) Staff

Survey of major problems in American society through sociological analysis of current popular and scientific materials relating to such matters as unemployment, mental health, urban redevelopment, crime and delinquency, family disorganization, and race relations. Not open to juniors and seniors. Prereq., 1. (Each sem.)

101. PRINCIPLES OF SOCIOLOGY (3) Staff

An introductory course covering the same topics as 1 in a more intensive manner. Not open to students who have taken 1. (Each sem.)

102. AMERICAN SOCIETY (3) Staff

Analysis of structure and changes in contemporary American society: the family, education, religion, industry, political institutions; urbanization, race relations, social classes, social problems. Not open to students who have taken 2. Prereq., 1 or 101. (Each Sem.)

105. INTRODUCTION TO ANTHROPOLOGY (3) Webb

Human origins, migrations, and the distribution of races; prehistoric development of human societies; analysis of representative cultures of the Old and New Worlds; primitive cultural, social, and economic organization. Prereq., 1 or 101. (1st sem., yearly.)

110. SOCIAL BEHAVIOR (3) Staff

Introduction to social psychology: the development of role-taking ability and self-concept; the patterning of personality and conduct through social interaction. Prereq., 1 or 101. (Each sem.)

117. SOCIAL SECURITY SYSTEM (2) Worstell
Programs, policies, and problems related to the prevention and alleviation of economic insecurity in the United States. (Each sem.)

151. ELEMENTARY RESEARCH TECHNIQUES (3) Staff
Laboratory course in scientific procedure in the study of social behavior. Study design, schedule and scale construction, techniques of survey and depth interviewing and recording, analysis of data, and research reports. Prereq., 1, or with 101. (1st sem., yearly.)

152. FIELD STUDIES IN SOCIOLOGY (2) Staff
Planning and execution of an empirical study of interest to the student, utilizing the skills developed in 151. Limited class meetings, conferences with instructor, research report. Prereq., 151. (2nd sem., yearly.)

175. CURRENT SOCIOLOGICAL LITERATURE (1) Staff
The scope and types of professional literature in sociology, especially journals; writing and presentation of critiques of current research. Prereq., 2 or 102. (Each sem.)

202. READINGS IN ANTHROPOLOGY (1) Staff
Supervised reading in archaeology, physical anthropology, linguistics, ethnography, and social and cultural anthropology, including economics, government, religion, and culture and personality. Maximum credit in course, 2 hrs. Prereq., 105. (Each sem.)

203. READINGS IN SOCIOLOGY (1) Staff
Independent reading in a field chosen by the student, under the guidance of a staff member. Maximum credit in course, 2 hrs. Prereq., 2 or 102. (Each sem.)

204. URBAN COMMUNITIES (3) Staff
Development of cities since 1800; population, ecological pattern, and social organization of modern cities; role of the metropolis in region and nation; city planning. Prereq., 1 or 101. (2nd sem., yearly.)

207. SOCIOLOGY OF EDUCATION (3) Webb
Study of the school as a social institution in relation to the community organization of modern cities; role of the metropolis in region and nation; city planning. Prereq., 1 or 102. (2nd sem., yearly.)

209. INTRODUCTION TO THE STUDY OF POPULATION (3) Kwan
Growth, composition, and distribution of populations; fertility, mortality, and migration; relationships between social organization and demographic processes. Prereq., 6 hrs. (1st sem., yearly.)

211. RACE AND CULTURE CONTACTS (3) Kwan
Processes of competition, conflict, accommodation, and assimilation in the relations of racial and ethnic groups; individual and collective experiences arising in the contacts of peoples of diverse cultures. Prereq., 6 hrs. (2nd sem., yearly.)

220. SOCIOLOGY OF DEVIANT BEHAVIOR (3) Babics
Systematic survey and theoretical analysis of major types of deviant behavior, including criminality, suicide, drug addiction, and mental disorders. Factors underlying deviation; programs of prevention and control. Field trips. Prereq., 1 or 101. (1st sem., yearly.)

229. CROWD AND MASS BEHAVIOR (3) Harlan
Collective behavior in situations of social unrest; the impact of crowd behavior upon social institutions; social-psychological factors in mass action; publics as instruments of social change. Prereq., 1 or 101. (1st sem., yearly.)

233. SOCIAL WELFARE I (3) Worstell
The development of social welfare as a contemporary social institution, and of social work as a profession. Prereq., 1 or 101. (Each sem.)

234. SOCIAL WELFARE II (3) Worstell
Legislation, agency services, and related services designed to promote the welfare of children; emphasis on programs for children with social, emotional, and physical problems. Prereq., 233, or 6 hrs. psych., home ec., or ed. (Each sem.)

250. SOCIAL ANTHROPOLOGY (3) Staff
The sociology of primitive peoples, with emphasis upon social structure and the functional institutional analysis of primitive cultures. Selected studies of early and non-literate peoples, chosen to illustrate the approach and contributions of anthropological investigation. Prereq., 1, 101, or 105. (2nd sem., yearly.)

260. SOCIOLOGY OF THE FAMILY (3) Horning
The family in various cultures; courtship, marriage, and family relationships in American society; family disorganization; the development of marriage counseling. Prereq., 1 or 101. (1st sem., yearly.)

301. SOCIAL RESEARCH METHODS (2) Staff
Analysis of the research process in terms of problem definition, experimental design, field techniques, and methods of data analysis. Prereq., 152 or a course in statistics. (1st sem., 1964-65.)

303. SOCIOLOGICAL THEORY (2) Staff
Historical development of sociology; major European and American contributors; recent trends and the status of specialized fields of interest. Prereq., 9 hrs. (1st sem., yearly.)

311. CRIMINOLOGY AND PENOLOGY (3) Staff
Causal factors in criminal behavior; typology of offenders; crime statistics; criminal codes, formal and informal prison social systems; treatment techniques and facilities. Field trips. Prereq., 6 hrs. (1st sem., yearly.)

315. FOLK COMMUNITIES (3) Staff
Comparative study of primary village communities; peasantry as a historical phenomenon; the folk community as an embodiment of civilization in Europe, India, the Far East, or Mexico. Prereq., 6 hrs. (1st sem., yearly.)

316. CULTURE AND CIVILIZATION (3) Staff
Analysis of the concept "civilization" and of the transformation of social life which it represents. Social institutions and change in selected early cultures and civilizations outside the main course of Western history. Prereq., 6 hrs. (2nd sem., yearly.)

318. WORLD POPULATION TRENDS (3) Kwan
Differential rates of growth in various countries; technological, health, economic, and political problems; current national and international policies and programs. Prereq., 209, or 9 hrs. ec. or govt. (2nd sem., yearly.)

320. SOCIOLOGY OF ORGANIZATION (3) Horning
 Study of the work plant as a social system, with emphasis upon work-group relationships and behavior; the meaning and organization of work, managerial functions, and the structure of trade unions. Prereq., 6 hrs. (1st sem., yearly.)

321. CONTEMPORARY SOCIAL MOVEMENTS (3) Harlan
 Organized movements resulting in major social changes; revolutionary, nationalistic, reform, religious, and fashion movements; leaders, ideologies, tactics; case studies of typical movements. Prereq., 6 hrs. (2nd sem., yearly.)

322. JUVENILE DELINQUENCY (3) Staff
 Factors associated with delinquency; characteristics of delinquents; juvenile courts and clinics; probation, correctional training; delinquency prevention. Field trips. Prereq., 6 hrs. (2nd sem., yearly.)

325. PERSONALITY AND SOCIETY (3) Harlan
 Analysis of personality development in relation to cultural differences and social class position; human nature, feeling, motivation, social perception; problem-solving and reference-group behavior in successive life-stages. Prereq., 110, or 9 hrs. psych. (2nd sem., yearly.)

330. SOCIAL GROUP WORK (2) Worstell
 Descriptive study of the methods and basic concepts of social group work practice. Students participate in or lead a group. Prereq., 233. (2nd sem., 1964-65.)

334. SOCIAL STRATIFICATION (3) Staff
 Caste, estate, and class systems, and their relation to occupation, life-expectancy, health, mental disorder, education, political interests, etc., factors in social mobility. Prereq., 6 hrs. (2nd sem., 1964-65.)

336. PUBLIC OPINION AND MASS COMMUNICATIONS (3) Harlan
 Attitude and opinion formation in relation to decision-making processes; methods in the study of public opinion; organization and control of mass media, and the functions of media content; techniques and effects of propaganda. Prereq., 102 or 229. (2nd sem., yearly.)

339. INTRODUCTION TO THE PROFESSION OF SOCIAL WORK (3) Worstell
 Descriptive study of the practice of social case work and of some of the basic concepts. Selected case records are used. Prereq., 234, permission. (Each sem.)

341, 342. FIELD AND AGENCY EXPERIENCE (2, 2) Worstell and others
 Assignment to a welfare or correctional agency for observation and limited work experience. Agency supervision, regular conferences with instructor. Two afternoons each week. Maximum credit in course, 4 hrs. Prereq., 311 or 322 or 339, permission. (Each sem.)

345. SMALL GROUP ANALYSIS (2) Harlan
 Theory of small group interaction, communication, role definition, and leadership; group structure and function in various organizational contexts; emphasis upon current research. Prereq., 110 or 9 hrs. psych. (2nd sem., 1964-65.)

350. TOPICAL SEMINARS (2) Staff
 Selected topics in the following areas; given in sequence in a two-year cycle:

- a. *Deviant Behavior* — Babics
- b. *Sociology of Conflict* — Kwan

c. *Occupations and Professions* — Horningd. *Human Nature* — Harlan

Maximum credit in course, 4 hrs. Prereq., 15 hrs. permission. (Each sem.)

375. SENIOR SEMINAR

(2) Staff

Required of all senior majors; includes comprehensive examination covering required courses and electives submitted for major. Students graduating at mid-year will substitute 350 or 381. Prereq., 20 hrs., senior status. (2nd sem., yearly.)

381. RESEARCH PROBLEMS IN SOCIOLOGY

(1 to 3) Staff

Individual research coordinated with other student or faculty projects. Maximum credit in course, 6 hrs. Prereq., 15 hrs., including 152 and 175, permission (Each sem.)

491. GRADUATE SEMINARS

(2) Staff

Offered in sequence in a two-year cycle in the following areas: (a) Social Organization, (b) Social Psychology, (c) Collective Behavior, (d) Population and Community Structure. Maximum credit in course, 6 hrs. Prereq., permission.

495. THESIS

(1 to 6) Staff

Prereq., 152, 301, 381, or equivalents, permission.

SPANISH—See Modern Languages

SPEECH AND SPEECH AND HEARING THERAPY

Professors Andersch,

Brandes, Kantner (director), LaFollette, Staats

Associate Professors Ham, Penson, Watkins, Wiseman

Assistant Professors Conover,

Cooper, Faules, Hahne, Richards

Instructors Barnett, Swingle

SPEECH

1. FUNDAMENTALS OF SPEECH

(1) Andersch, staff

Study and practice of basic techniques for effective participation in everyday speaking situations. 1 lec., 1 lab.

2. VOICE AND ARTICULATION

(2) Hahne, staff

Designed to help each student discover and remedy his vocal and articulatory problems. Not open to majors.

3. PUBLIC SPEAKING

(2) Wiseman, staff

Principles of public speaking. Practice in presenting short informative, entertaining, and persuasive speeches with emphasis upon intellectual and emotional adjustments to speaking situations. Prereq., 1 or proficiency test.

7. BASIC SPEECH TRAINING

(2) Hahne, staff

Group drill and individual instruction designed to help the student achieve adequate proficiency in the basic aspects of speech. Open only to, and required of, majors or prospective majors in Dramatic Art and Speech. Credit will not be given for both 2 and 7.

25. PRINCIPLES OF ARGUMENTATION (2) Watkins, staff
Analysis of the debate proposition, preparation of the brief, study of evidence, and class debates.

34. ORAL INTERPRETATION OF LITERATURE (3) Conover, staff
Techniques in oral interpretation and the development of adequate intellectual and emotional responsiveness to the meaning of literature. Prereq., 2 or 3 or permission.

104. BASES OF SPEECH (3) Andersch, Brandes
The physiological, phonetic, psychological, and semantic bases of speech. Prereq., sophomore standing; major in Dramatic Art and Speech.

110. PARLIAMENTARY PROCEDURE (1) Staats, staff
Prereq., 1 or proficiency test.

112. ADVANCED PUBLIC SPEAKING (2) Faules, Watkins
Extended study and application of the principles of public speaking with emphasis on content and organization. Preparation and delivery of various types of speeches of substantial length. Prereq., 3 or permission.

147. WORKSHOP IN SPEECH (1 or 2) Faules, Staats
Preparation and delivery of speeches and readings for local, state, and national contests and/or intercollegiate debate. Maximum credit in course, 6 hours. Prereq., permission.

260. TEACHING OF HIGH SCHOOL DRAMATICS AND SPEECH (3) Andersch
Organization of curricular and co-curricular speech and dramatic activities; analysis of available materials; methods of casting, staging, and producing plays; problems in the coaching of debate and oratory. Prereq., junior standing, major or minor in Dramatic Art and Speech.

303. ADVANCED ORAL INTERPRETATION (2) Conover
A study of the principles of types of literature from the standpoint of the oral interpreter. Emphasis on the development of skill in the interpretation of various forms of poetry, prose, and dramatic literature. Prereq., 34.

305. PROBLEM SOLVING THROUGH GROUP DISCUSSION (3) Wiseman
Social responsibility, ethical problems and standards; application of the principles of general semantics and group dynamics; purposes, types, and methods of discussion; frequent class practice. Prereq., junior standing.

306. PSYCHOLOGY OF COMMUNICATION (3) Klare
See PSYCHOLOGY

308. PSYCHOLOGY OF SPEECH (3) Brandes
A study of the psychological principles most active in oral communication including laughter, stage fright, lying, and language development, together with the results of these factors on the speaker and his audience. Prereq., 104 or Psych. 1 or 101 and 6 hours speech or psychology.

309. CLASSICAL RHETORICAL THEORY (3) Staats, Watkins
The principles of rhetoric based upon the theories of Aristotle, Cicero, Adams and Quintilian. Speeches of eminent orators are analyzed. Prereq., F.A. 203-204 or permission.

325. DIRECTION OF FORENSIC PROGRAMS (3) Brandes, Faules

Organization of forensic programs in high schools and colleges, management of inter-school contests and tournaments, coaching of debate, discussion and individual events, and principles of judging. Practical application in the university forensic program. Prereq., 25, 305 or equivalent.

333. ORAL INTERPRETATION OF DRAMATIC LITERATURE (3) Conover

A study of the principles of drama from the standpoint of the oral interpreter. Special emphasis on the modern period from Ibsen and Chekov to the present. Prereq., 303, or Dram. Art 359.

340. APPLICATIONS OF GENERAL SEMANTICS TO SPEECH

(3) Wiseman

The chief formulations from general semantics will be presented with special emphasis on the application of these principles to the field of speech. Prereq., 10 hrs., of speech or permission.

342. PERSUASION

(3) Brandes

Survey of experimental research on the content and arrangement of speeches with emphasis on the use of evidence and of emotional and ethical proof. Prereq., 9 hrs., including 25 or permission.

344. APPROACHES TO THE STUDY OF ORAL COMMUNICATION

(3) Penson, Wiseman

Comparison and integration of the various approaches to the study of communication behavior in individuals and groups. Prereq., 12 hrs., or 9 hrs. psychology or permission.

349. RHETORICAL CRITICISM

(3) Watkins

Theories and critical methods of Plutarch, Cicero, Goodrich, Brougham, and selected modern writers. Prereq., 12 hrs., including 309, or equivalent.

366. COMMUNICATION IN ORGANIZATIONS

(3) Penson

Over-view of communication principles applied to organizations. Objectives and techniques of communication. Detailed study of the main communication channels in organizations and of models, media and message types. Management 211 is recommended as preparation. Prereq., junior standing and permission.

381. RESEARCH

(2 to 4) Staff

Maximum credit, 6 hrs. Not open to graduate students. Prereq., senior standing and permission.

385. CONTEMPORARY PUBLIC ADDRESS

(3) Brandes

Prereq., permission.

395. ADVANCED ARGUMENTATION AND DEBATE

(3) Brandes

Advanced principles of argumentation and persuasion. Analysis of logical, ethical, and emotional proofs. Prereq., 15 hrs., including 25 and 112 or equivalent.

401. INTRODUCTION TO GRADUATE WORK

(3) Kantner

Men, movements, and professional literature in the field of speech. Conduct of research and selection of a thesis problem.

412. ADVANCED SPEECH COMPOSITION AND DELIVERY

(3) Staats

Advanced study of content, organization, composition, and delivery of lecture-length speeches. Prereq., 112, 309, or equivalent.

462. SPEECH AND HIGHER EDUCATION (3) Andersch
Philosophy and function of speech as an academic discipline and problems in the teaching of speech at the college level. Prereq., 18 hrs.

471. AMERICAN PUBLIC ADDRESS (3) Staats
The history of public address in America from colonial times to the present. Prereq., 112, F.A. 203-204 or equivalent.

472. BRITISH AND FRENCH PUBLIC ADDRESS (3) Watkins
A study of the pulpit and political orators of the French revolutionary period and the British parliamentary orators of the eighteenth and early nineteenth centuries. Prereq., 309 or equivalent.

473. RENAISSANCE RHETORICAL THEORY (3) Watkins
The major rhetorical theories from Cox in 1530 to Whately in 1828 are covered with the emphasis placed on the Renaissance linking of ancient to modern rhetoric. Prereq., senior majors or permission.

475. GREEK, ROMAN, AND PATRISTIC PUBLIC ADDRESS (3) Staats
Historical and cultural aspects of public address in the Greek, Roman, and Patristic periods. Outstanding speakers and speeches of each period analyzed in terms of the issues of the time. Prereq., F.A. 203-204, Speech 309, Hist. 115 or 120 or equivalent.

490. SEMINAR IN PUBLIC ADDRESS (3) Staats, Watkins
Advanced study in the history of public address, rhetorical theory, or rhetorical criticism and speech analysis. Class discussions and reports. Prereq., 309 or 471, or equivalent.

491. SEMINAR IN SPEECH EDUCATION (2 or 3) Andersch
Problems in the teaching of basic speech courses at the college level, evolution of the speech curriculum. Assigned problems. Prereq., 15 hrs.

494. RESEARCH (1 to 12) Staff
Individual, guided research on special problems. Projects must be approved prior to registration. Prereq., 8 hrs., permission.

495. THESIS OR DISSERTATION (As recommended by dept.) Staff
Prereq., permission.
Additional course: F.A. 203-204—History of Oratory
See also courses listed under DRAMATIC ART and RADIO-TELEVISION.

SPEECH AND HEARING THERAPY

4. REMEDIAL SPEECH (No credit) Ham, staff
The Speech and Hearing Clinic is equipped and staffed to aid students in overcoming special speech problems. Instruction and supervised remedial practice are offered for individuals and small groups. Enrollment with permission at any time up to four weeks prior to the end of the semester. Counted as equivalent to 1 credit for fee and load purposes.

194. SPEECH CORRECTION FOR THE CLASSROOM TEACHER (3) Cooper
Nature, causes, and treatment of defective speech in the public schools with special reference to the role of the regular classroom teacher. Open to majors in elementary education; others by permission. Not open to majors in Dramatic Art and Speech.

195. PRINCIPLES OF SPEECH CORRECTION

(3) Cooper

The nature, symptoms, causes, etiology, and diagnosis of disorders of speech and voice. Emphasis on methods and techniques in the correction of common speech defects. Prereq., 6 hrs., Psych. 1 or 71, or permission.

262. SPEECH AND HEARING THERAPY IN PUBLIC SCHOOLS

(2) Cooper

Methods, organization, and implementation of speech and hearing programs in the public schools. Must be taken concurrently with Student Teaching. Prereq., 307.

307. CLINICAL METHODS

(3) Ham

Basic orientation to speech therapy. Observation of children with normal and defective speech. Clinical work in the school situation and in the Children's Speech Clinic. Prereq., 6 hrs., including 195.

310. SPEECH PATHOLOGY

(3) LaFollette

Organic speech disorders. Prereq., 195.

312. PHONETICS

(3) Kantner

The study of speech sounds from a sociological, physiological, and acoustical point of view. Mastery of the international phonetic alphabet. Training in phonetic transcription. Prereq., 6 hrs. or permission.

319. AUDIOMETRY AND SPEECH AND HEARING PROBLEMS

(3) LaFollette, Richards

Techniques of audiometric testing with clinical practice; interpretation of audiograms, criteria for educational placement and referral; principles of hearing aid selection; public school hearing conservation programs. Prereq., 6 hrs., or equivalent of 6 hrs., permission.

320. ADVANCED CLINICAL METHODS

(3) Barnett

Methods in speech correction for adults; survey of current literature; clinical experience with adults in such problems as articulatory disorders, stuttering, aphasia, cerebral palsy, cleft palate, and loss of hearing. Prereq., 10 hrs., including 310.

323. LIP READING

(3) LaFollette

The basic principles of understanding language by observing the speaker's lips and facial expression. Emphasis on both theory and practice of speech reading. Special attention given to teaching methods. Prereq., 6 hrs.

329. ADVANCED CLINICAL AUDIOLOGY

(3) Richards

Pathology of the ear and related speech disorders, emphasizing advanced techniques in the testing of hearing for analysis and for differential diagnosis. Prereq., 12 hrs. in speech and hearing therapy, including 319.

335. DIAGNOSTIC PROCEDURES IN SPEECH AND HEARING THERAPY

(3) Ham

The role of diagnosis in speech and hearing therapy; conducting the speech examination; the nature, purpose, administration and interpretation of the more important diagnostic tests and procedures. Prereq., 320 or with 320.

345. STUTTERING AND PSYCHOGENIC DISORDERS OF SPEECH

(3) Cooper

Nature, causes, development, and treatment of stuttering and other speech defects with psychogenic implications. Prereq., 320 or with 320.

347. THERAPY PRACTICE IN SPEECH AND HEARING (1 to 12) Ham, staff

Supervised experience in the rehabilitation of speech and hearing disorders in the University Speech and Hearing Clinic or off-campus in cooperating clinics and hospitals. Maximum credit, 4 hrs. for undergraduates; 12 hrs., for graduates. Prereq., senior major and permission.

362. THE SPEECH AND HEARING MECHANISM (3) Ham

The structure and functions of the mechanisms for speech and hearing. Prereq., senior standing and major.

370. AUDITORY REHABILITATION (3) Richards

Diagnostic and rehabilitation procedures for hard of hearing cases who can benefit from the use of a hearing aid. Problems relating to the selection, fitting, use, and care of the hearing aid. Practice in the Audiological Center. Prereq., senior, 9 hrs. of audiology or permission.

381. RESEARCH (2 to 4) Staff

Maximum credit, 6 hrs. Not open to graduate students. Prereq., senior standing and permission.

392. SPEECH SCIENCE (3) Richards

Research methods and laboratory projects. Prereq., senior majors or graduate students.

405. CLINICAL PROGRAMS IN SPEECH AND HEARING THERAPY (3) LaFollette

Organization and administration of clinical programs in speech and hearing therapy. Prereq., 319, 320.

445. LANGUAGE FOR THE DEAF AND HARD OF HEARING (3) Richards

Stage by stage instruction for the teaching of speech to deaf and hard of hearing children of all ages. Prereq., 307, 319, 323 or equivalent.

446. LANGUAGE PROBLEMS OF THE BRAIN INJURED (3) Ham

Consideration of the neurological basis, pathological causes and speech and psychological implications of cerebral palsy, aphasia, and other types of brain injury, together with methods of therapy. Prereq., 320, 362 or permission.

476. RESEARCH DESIGN (3) Brandes, Penson

Instrumentation, research designs, areas of research and significant findings in selected contemporary studies. Group or individual research projects.

492. SEMINAR IN SPEECH CORRECTION (3) LaFollette, Penson

Current literature and advanced research in the field of speech correction. Individual reading projects. Class reports and discussions. Prereq., 12 hours, including 195.

494. RESEARCH (1 to 12) Staff

Individual, guided research on special problems. Projects must be approved prior to registration. Prereq., permission, 8 hours.

495. THESIS OR DISSERTATION (As recommended by dept.) Staff

Prereq., permission.

STATISTICS

Professor Soltow (chairman)

155. BUSINESS STATISTICS

Elementary statistical methods used in business. 3 lec., 3 hour lab.

Prereq., Ec. 12 or 102 and Math. 3 and 4 or Math. 15 and 16.

(4) Staff

271. ANALYSIS OF STATISTICAL DATA (3) Staff
 Study of reports and forecasts of business firms, bureaus, and agencies. Application of statistical methods to specific problems. Prereq., 155.

303. STATISTICAL QUALITY CONTROL (3) Staff
 The application of sampling theory to industrial operations. A course in industrial statistics especially recommended for students interested in production control. Prereq., 155.

310. INTERMEDIATE (3) Staff
 Techniques of small sample tests applied in marketing and opinion polling, statistical quality control, economics, and government statistics. Prereq., 155.

341. BUSINESS CYCLES (3) Staff
 A study of the nature, causes, and theory of the business cycle together with a survey of techniques of description and control. Prereq., 155 or with 155.

345. FORECASTING (3) Staff
 The theory of prediction of social data and the theory of business forecasting with special reference to economic conditions and the business cycle. Prereq., 155 or with 155.

350. RECENT TRENDS IN STATISTICAL TECHNIQUES (3) Staff
 Applications to business and economics, including input-output tables, quantified economic models, linear programming, and decision making. Prereq., 155.

381. RESEARCH IN BUSINESS STATISTICS (1 to 8) Staff
 Prereq., 18 hrs. business administration including 155 and permission.

391. SEMINAR IN BUSINESS STATISTICS (2 to 4) Staff
 Maximum credit in course, 10 hrs. Prereq., 18 hrs. business administration, including 155 and permission.

Additional course: Math. 331-332—Theory of Statistics.

ZOOLOGY

Professors Elliott, Frey,
 Seibert (chairman), Stehr
 Associate Professors Lawrence, McQuate,
 W. Peterson, Vallowe
 Assistant Professors Harclerode, Heck,
 Huling, Maier, Wilson

The major requirements for the A.B. and B.S. degree is a minimum of 24 hours in approved departmental courses. These courses must include Zoology 3-4, 107, and one semester each of anatomy and physiology. For correct choice of latter courses, see outlines of pre-professional curricula and course descriptions. The following extra-departmental courses are required: Chem. 3-4, 99 (organic chemistry is virtually a necessity), one semester (two recommended) of mathematics, Phil. 1 or 109 or 110.

Curricula are outlined in the College of Arts and Sciences section of the catalog for students preparing for medicine, dentistry, physical therapy, and medical technology. Students who substitute a year in medical or dental school for the senior year at Ohio University are credited with 8 hours on the major for the A.B. or B.S. degrees. Those

who complete the training in medical technology at Mount Carmel Hospital or at any other hospital approved by the Bureau of Registry and by Ohio University are credited with 32 hours toward the B.S. degree. Students who wish to teach and to complete requirements for the A.B. or B.S. degree with a major in zoology, may meet requirements for certification for teaching.

3. PRINCIPLES OF ZOOLOGY

(4) Staff

Elementary physiology and anatomy of a living organism to illustrate principles of life: metabolism, growth, reproduction, and heredity. 3 lec., 2 lab. No credit if student has had Biol. 1, 2. (Each sem.)

4. PRINCIPLES OF ZOOLOGY

(3) Staff

A survey of the important animal phyla to illustrate major biological principles; the relationships of animals and their environment; the doctrine of evolution as the underlying principle. 2 lec., 2 lab. Prereq., 3. No credit if student has had Biol. 1, 2. (2nd sem., yearly.)

103. READINGS IN BIOLOGY

(1) Stehr

For students interested in advances in biological fact and thought. Prereq., 4, or Biol. 2.

107. PRINCIPLES OF HEREDITY

(3) McQuate

An introduction to the fundamental principles of heredity and variation. Practical applications to animal and plant breeding, human heredity, and race betterment. Prereq., 4, or Biol. 2, or 6 hrs. botany. (1st sem., yearly.)

108. ELEMENTARY LABORATORY GENETICS

(2) McQuate

Breeding experiments primarily with *Drosophila* designed to illustrate the principles of heredity. 4 lab. Prereq., 107. (2nd sem. yearly.)

113. BIOLOGY OF VERTEBRATES

(4) Seibert

A study of vertebrate animals, other than birds, including classification, life histories, and other pertinent topics. Identification of museum collection with emphasis on Ohio specimens; collecting and preserving techniques; field work, 2 lec., 4 lab., field work. Prereq., 4. (1st sem., 1964-65.)

118. ORNITHOLOGY

(3) Seibert

A study of birds and bird biology, including classification, migration, general anatomy and physiology, life histories. Emphasis on field identification. 2 lec., 2 field work. Prereq., 4, or Biol. 2. (2nd sem., yearly.)

120. COMPARATIVE VERTEBRATE ANATOMY

(4) Elliott

A comparative study of body systems of vertebrates, with laboratory work covering various type forms. 2 lec., 4 lab. Prereq., 4. (2nd sem., yearly.)

121. ELEMENTS OF ANATOMY

(3) Heck

Course for medical technology, pre-mortuary and non-major students. Particular emphasis is given to a study and dissection of the head, thorax, and abdomen of the cat. 2 lec., 2 lab. Prereq., 4. (1st sem., yearly.)

133. ANATOMY AND KINESIOLOGY

(4) Harclerode, Trepp

(Same as P.E. 133.) Structure of body systems with particular emphasis on the skeleton, joints and muscles, and a study of muscular movement. 2 lec., 4 lab. Prereq., 3. (1st sem., yearly.)

134. HUMAN PHYSIOLOGY

(3) Harclerode

(Same as P.E. 134.) Functions of the various tissues, organs and systems of mammals as applied to the human. Recommended for physical education, physical therapy, and home economics students. Prereq., 133. (2nd sem., yearly.)

216. ANIMAL COMMUNITIES

(4) Seibert

A study of animals in relation to their surroundings. Discussion of the general principles governing animal distribution and animal communities. 2 lec., 4 lab. or field work. Prereq., 4. (2nd sem., yearly.)

219. GENERAL ENTOMOLOGY

(4) Stehr

The structure, habits, and life histories of insects, with practice in collecting, mounting, and identification. 2 lec., 4 lab. Prereq., 4. (1st sem., yearly.)

225. ANIMAL MICROTECHNIC

(1) Peterson

The principles and methods of preparing animal material for microscopic study. Principles of the microscope and its accessories. 1 lec., 4 lab. Prereq., 4, junior or senior rank. (1st sem., yearly.)

241. ELEMENTARY BACTERIOLOGY

(4) Lawrence

Morphology and physiology of bacteria, staining reactions, preparation of media and the biochemical reactions resulting from bacterial activity. Department majors are referred to Zool. 311. 2 lec., 4 lab. Prereq., 4 or Biol. 2, or 6 hrs. botany, or 8 hrs. chemistry. (Each sem.)

301. COMPARATIVE VERTEBRATE ANATOMY—MAMMALIAN

(4) Elliott

The anatomy of mammals with particular emphasis on the cat. 2 lec., 4 lab. Prereq., 120. (1st sem., yearly.)

302. VERTEBRATE EMBRYOLOGY

(4) Peterson

All phases of vertebrate development are considered, and particular emphasis in laboratory is given to the chick and pig. 2 lec., 6 lab. Prereq., 120 or 121. (2nd sem., yearly.)

304. HISTOLOGY

(4) Heck

A study of the fundamental body tissues of vertebrates followed by a study of the histology of the body systems. 2 lec., 4 lab. Prereq., 120 or 121. (2nd sem., yearly.)

305. PRINCIPLES OF PHYSIOLOGY

(4) Wilson

A comparative study of regulatory systems in organisms and their relation to chemical and physical events in cells and solutions. 2 lec., 6 lab. Prereq., 120 or 121, Chem. 4, 99. Organic chemistry valuable. (1st sem., yearly.)

306. CELLULAR PHYSIOLOGY

(4) Wilson

A study of cell chemistry and structure as related to various functional activities; methods for cell studies. 3 lec., 3 lab. Prereq., 305. (2nd sem., yearly.)

307. PRINCIPLES OF ENDOCRINOLOGY

(4) Vallowe

A study of the organs of internal secretion from the standpoint of their phylogeny, embryology, micro-anatomy, and physiology. 2 lec., 4 lab. Prereq., 120 or 121; 305 or 306. (Given upon sufficient demand.)

308. ADVANCED GENETICS

(Same as Bot. 308.) (3) Cohn, McQuate

Gene action and fine structure; biochemical, microbial and radiation genetics; cytoplasmic inheritance. 3 lec. Prereq., Botany 232 or Zool. 107, organic chemistry. (2nd sem., 1964-65.)

309. BIOLOGICAL CHEMISTRY (4) Wilson

Metabolism of carbohydrates, proteins, and fats; principles of enzyme action; chemistry and tests for biological compounds. 2 lec., 4 lab. Prereq., 12 hrs., organic chemistry. (2nd sem., yearly.)

310. RADIATION BIOLOGY (Same as Bot. 310.) (4) Harclerode, Larson

A study of the techniques of the use, detection and interpretation of radioactive tracers in biological problems and the effects of some radiations on living tissue. 2 lec., 4 lab. Prereq., in Zoology: 8 hrs. beyond 4, incl. 305; in Botany: 9 hrs. beyond 4; incl. 205. (2nd sem., 1965-66.)

311. GENERAL BACTERIOLOGY (4) Maier

A study of the structure, classification and relationships of bacteria; preparation of cultures, staining, and biochemical reactions. Not open for graduate credit to majors in bacteriology. 2 lec., 4 lab. Prereq., 4 and Chem. 113 or 201. (Each sem.) Not open to students who have had 241.

312. PATHOGENIC BACTERIOLOGY (4) Lawrence

Microorganisms in relation to diseases. A study of disease manifestations, methods of transmission, means of protection and immunity. 2 lec., 4 lab. Prereq., 311. (1st sem., yearly.)

314. MICROBIOLOGICAL TECHNICS (2) Lawrence, Maier

A practical course designed to give the student extensive experience in the use of bacteriological technics and equipment. 4 lab. Prereq., 241 or 311; organic chemistry. (1st sem., yearly.)

316. ANIMAL PARASITES (4) Heck

Parasites in relation to human disease. Parasites infesting man, their life histories, the diseases they produce, and means of prevention. 2 lec., 4 lab. Prereq., 10 hrs., permission. (2nd sem., yearly.)

317. ADVANCED GENERAL BACTERIOLOGY (4) Lawrence

Bacteria as living systems. Subjects considered will include: growth requirements, enzyme systems, intermediary and end products formed, influence of environmental factors and bacterial taxonomy. 2 lec., 4 lab. Prereq., 241 or 311, organic chemistry. (2nd sem., 1964-65.)

320. ADVANCED ENTOMOLOGY (4) Stehr

Insect morphology and the principles of insect classification and identification, with emphasis on the more extensive orders. 2 lec., 4 lab. Prereq., 219. (2nd sem., 1964-65.)

323. PROTOZOLOGY (4) Peterson

Life histories, physiology, and relationships of representatives from all major groups of protozoa. 2 lec., 4 lab. Prereq., 12 hrs. (Given upon sufficient demand.)

325-326. INVERTEBRATE ZOOLOGY (4-4) Huling

Structure, relationships, and life histories of representative members of the various invertebrate phyla, together with related general principles. 2 lec., 4 lab. Prereq., 10 hrs., permission. (1965-66.)

327. ANIMAL ECOLOGY (4) Seibert

A study of the effect of environment on animals; the role of temperature, moisture, gases, photoperiod, metabolism, osmotic regulation on ecological distribution; physiological and structural adaptations. Experimental methods in field and laboratory. 2 lec., 4 lab. or field work. Prereq., 216. (1st sem., 1965-66.)

331. EVOLUTION

(2) Seibert

The evidence for, and current ideas and research on, the mechanisms of organic evolution. Prereq., 107. (Given upon sufficient demand.)

335. GENERAL BIOCHEMISTRY

(3) McQuate

The structure, properties, and metabolic significance of the important constituents of living matter. 3 lec. Prereq., 305. Not open to med. tech., home ec., or premed. and premed. majors. (1st sem., yearly.)

336. GENERAL BIOCHEMISTRY LABORATORY

(2) McQuate

A laboratory course to accompany Zool. 335. 6 lab. Prereq., 335 or with 335. (1st sem., yearly.)

343. BIOLOGICAL STUDIES (1 to 4 a semester in any of the following areas)

Semi-independent studies under the guidance of the instructor. Maximum credit in any one area, 8 hrs. Prereq., 10 hrs., permission.

- a. Bacteriology—studies in water, dairy, and pathogenic bacteriology; serology and advanced technic. Lawrence, Maier.
- b. Ecology—field and laboratory studies of the relationship between animals and their surroundings. Seibert, Stehr.
- c. Entomology—classification, structure, life histories, and economic aspects of insects. Stehr.
- d. Genetics—breeding experiments and library work in the field of heredity. McQuate.
- e. Invertebrate Zoology—classification, structure, embryology, and life history of invertebrates. Huling, Peterson, Stehr.
- f. Parasitology—animal parasites. Heck, Peterson.
- g. Physiological Zoology—physiological and related experimental studies. Harclerode, Vallowe, Wilson.
- h. Readings in Biology—biological history, theory, and advances. Stehr.
- i. Technician's Methods—technic and theory of blood, urine, gastric analysis, fecal examination, and serological methods. Lawrence, Maier.
- j. Vertebrate Anatomy—gross and microscopic anatomy, embryology, histological technic. Elliott, Peterson.
- k. Vertebrate Zoology—classification, life history studies. Seibert, Vallowe.

382. ADVANCED TOPICS

(1 to 4) Staff

Specialized topics not otherwise available to advanced students. Prereq., permission.

- a. Biochemistry of Reproductive Hormones. Vallowe.
- b. Radiation Physiology. Harclerode.

391. SEMINAR IN ZOOLOGY

(1) Staff

Presentation of research or readings in current literature. Recommended for senior majors; required of graduate students. Prereq., permission. (Each sem.)

413. BACTERIOLOGICAL REVIEW

(2) Frey, Lawrence, Maier

An advanced theoretical course in bacteriology. Prereq., 12 hrs. bacteriology, permission. (Given upon sufficient demand.)

415. PHYSIOLOGICAL REVIEWS

(2) Wilson

An advanced lecture and conference course, involving literature review in various specialized phases of physiology and biological chemistry. Prereq., 8 hours of physiology, 309, permission. (Given upon sufficient demand.)

485. RESEARCH IN BIOLOGY

(1 to 4) Staff

Research work in all areas listed under 343. This course fulfills the thesis requirement. Maximum credit in course, 4 hrs. Prereq., 20 hrs., permission.

MEDICAL TECHNOLOGYMount Carmel Hospital Staff
H. B. Davidson, M.D., Director

The following courses are offered at Mount Carmel Hospital, Columbus, Ohio. See curriculum in the College of Arts and Sciences section of the catalog.

291. URINALYSIS

Four weeks (3)

The physical, chemical, and microscopic study of urine.

292. HEMATOLOGY

Twelve weeks (8)

Total red and white blood counts, hemoglobin determination, differential counts of white blood cells, sedimentation rates, blood typing, and blood cross-matching.

293. BACTERIOLOGY, SEROLOGY, AND PARASITOLOGY Six weeks (10)

Review of medical bacteriology with particular emphasis upon and reference to methods of recognition and detection of types of bacteria; methods in which blood serum can be used in recognition and diagnosis of disease; review of parasites pathogenic to man; methods of examining feces; microscopic and bacteriologic study of sputum.

294. CHEMISTRY

Fourteen weeks (8)

A study of the methods of blood chemistry determinations; methods of gastric analysis and the more complicated chemical procedures for urine and other body products.

295. HISTOLOGIC TECHNIC

Four weeks (2)

Reviews of fundamental procedures in the preparation of tissue for microscopic examination; study of special stains commonly used in microscopic examination of human tissue; experience in handling, on a routine basis, large amounts of human tissue for microscopic study.

296. BASAL METABOLISM AND ELECTROCARDIOGRAPHY Two weeks (1)

Study of the methods of determining the basal metabolic rate, and a study of the electrocardiograph and methods of taking electrocardiographic tracings.



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